Goal Area: Safety and Security for Residents, Visitors, and Businesses

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Eliminate transportation-related fatalities and minimize the number and severity of related injuries. • Reduce the number of crashes on the transportation system. ★ • Reduce the number and severity of transportation-related security risks. • Provide transportation infrastructure and services to support statewide and regional emergency preparedness, response, and recovery. ★
Strategies	***Safety*** • Design roadways, trails, and other facilities to be mindful of the most vulnerable users (pedestrian, bicycle, motorcycle, senior, and youth). ★ • Reduce lane-departure and intersection crashes through enhanced design, infrastructure, technologies, enforcement, and education. ★ • Reduce distracted and impaired travel-related incidents through improved education and enforcement of existing laws and regulations, and enhanced infrastructure and technologies. ★ • Increase the use of automated and connected vehicle technologies. ★ • Reduce commercial vehicle crashes through enhanced laws and regulations, infrastructure including truck parking and rest areas, technologies, and enforcement. ★ • Improve transportation operations to support safety for all users, such as signal and crossing locations and timing. ★ • Plan, design, and construct roadways and infrastructure to accommodate public transportation vehicles and improve safe access and connectivity for public transportation riders. ★ • Educate all users, including visitors, about safety issues and safety improvement strategies for all modes. • Support accurate, timely, and complete data collection and reporting of incidents and exposure for all modes, including intermodal connections. • Analyze incident and exposure data to identify risk factors and develop targeted plans to improve safety. ***Security*** • Improve data systems, analysis tools, and performance measures to focus resources on opportunities for security improvement. • Proactively evolve and enhance security systems to address new and emerging threats, such as biosecurity, food security, invasive species, nuclear materials, human trafficking, and technology breaches. ★

	• Increase the use of technology to improve transportation security, such as surveillance along transportation corridors and at transportation hubs. ★ • Design infrastructure to improve security, including secure truck parking areas to reduce cargo theft. ★ • Enhance security regulations, processes, communications, information systems, and infrastructure to improve customer service and reduce customer wait time. ★ ***Emergency Preparedness and Response*** • Optimize the use of technology such as traffic operations and traveler information strategies to improve emergency preparedness and response. ★ • Implement a comprehensive approach among state, regional, and local agencies, including use of all transportation modes, to improve emergency preparedness, response, and recovery. • Continue to develop and regularly update statewide and regional emergency response plans and incident management systems. • Restore and replace disrupted transportation infrastructure and services quickly following incidents and emergencies. ★ • Strengthen emergency preparedness and response collaboration and coordination among transportation, law enforcement, and emergency management organizations. • Ensure that transportation corridor improvements intended to enhance emergency evacuation and response are not used to promote additional development in high hazardous areas or areas not planned for growth. ★ • Provide transportation connectivity to Florida's military facilities to support their national security functions.

Goal Area: Agile, Resilient, and Quality Infrastructure

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Meet or exceed state, national, or industry standards for infrastructure quality and condition for all modes of transportation. ★ • Optimize the functionality and efficiency of existing infrastructure and right of way. ★ • Adapt transportation infrastructure and technologies to meet changing customer needs. ★ • Increase the resiliency of infrastructure to risks including extreme weather and climate.
Strategies	***Maintenance and Asset Management*** • Expand from a traditional focus on highways to proactively managing transportation assets for all modes to achieve acceptable conditions. ★ • Improve the availability and consistency of infrastructure data across modes and levels of government. ★ ***Agility (New Technologies, Vehicles, Market Trends)*** • Lead the nation in the research, development, and deployment of state-of-the-art materials, technology, and methodologies for all phases of transportation infrastructure design, construction, maintenance, and operations. • Adapt planning, design, construction, maintenance, and operations practices to address changing trends such as new technologies, larger freight and commercial passenger vehicles, major developments, and climate conditions. ★ • Adapt airports, seaports, and other infrastructure to accommodate changing customer expectations for service and quality. ★ • Plan and develop investments in new terminal and corridor capacity that are consistent with regional and local visions and plans and are anticipated to provide a positive return on investment. • Extend and integrate managed lanes into broader systems, including potential conversion of general purpose lanes to managed lanes as their use continues to evolve. ★ • Develop new corridors or designate portions of existing highway or rail corridors as "freight only" in targeted locations to improve safety, accommodate growth in demand and vehicle size, and help focus maintenance investments. ★ • Coordinate corridor right of way to support multiple, compatible uses, including transportation modes, utilities, and communication infrastructure. ★ • Develop or expand multimodal terminals that provide access to multiple modes at a single location. • Develop multi-level infrastructure, particularly as an option in built-out urbanized areas, such as elevated bicycle, public transportation, or express lanes. ★ ***Resiliency*** • Continue to support research on extreme weather and climate trends and potential impacts on infrastructure.

	• Incorporate the risk of extreme weather and climate trends into long-range planning, design, operations, and asset management decisions for all modes. ★ • Retrofit and adapt, as appropriate, existing critical infrastructure that is required to support existing development in areas vulnerable to extreme weather and climate impacts. ★ • Provide more diversity in the location of major transportation facilities, such as inland freight terminals and distribution centers, to reduce vulnerability to extreme weather and climate trends. ★ • Coordinate with cities, counties, and other agencies when making decisions about where to locate new infrastructure and new development to consider the risks of investing in areas vulnerable to extreme weather and climate impacts. ★ ***Planning and Project Development*** • Reduce the time and improve the predictability of the process for planning and developing major transportation projects. ★ *Note: This strategy may be moved into the implementation issues section.*

Goal Area: Efficient and Reliable Mobility for People and Freight

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Reduce unnecessary delays related to bottlenecks, crashes, and other incidents for all modes of Florida's transportation system. • Increase the reliability of all modes of Florida's transportation system. ★ • Increase customer satisfaction with Florida's transportation system for Florida's residents and visitors. ★ • Increase the efficiency of the supply chain serving Florida's residents and businesses. • Increase the efficiency of regulatory processes and improve customer satisfaction with these processes. ★
Strategies	***People (Business Travelers, Visitors, and Personal Travelers)*** • Use emerging technologies to reduce delay and improve reliability, such as intelligent transportation systems, dynamic adjustment of traffic patterns, connected vehicles and automated vehicles, and enhanced incident management. • Reduce delays associated with bottlenecks through improved management and operations of existing infrastructure, as well as targeted infrastructure improvements. • Reduce delays associated with crashes, work zones, special events, and other non-recurring congestion. • Support automated, seamless, origin to destination route planning that includes options for all users. ★ • Consolidate and streamline financial transactions into a universal, user friendly payment system for all transportation modes (tolls, bus or train fare, bike share or car share fees, parking fees, etc.). ★ • Protect and improve the quality of the visitor experience in Florida by providing transportation facilities and options that are efficient, safe, accessible, convenient, and comfortable. ★ • Improve the clarity and readability of signage and other traveler information, including use of multi-lingual or universal signage to accommodate a diverse resident and visitor population. ★ • Use technology to enhance customer service and the travel experience, such as providing schedules, travel times, wait times, incident notices, parking information, and re-routing to travelers. ★ ***Freight, Trade, and Logistics*** • Increase the efficiency and capacity of Florida's major seaports, airports, spaceports, and intermodal rail terminals through strategic investments in physical expansion as well as operational strategies to increase cargo density, accelerate cargo processing and transfer speed, expand operating hours, and use new technologies. ★ • Improve last-mile connectivity to Florida's major seaports, airports, spaceports, and intermodal rail terminals from other modes. • Increase the efficiency, capacity, and connectivity of the truck, rail, and water corridors that carry the majority of Florida's domestic and global trade, including use

	of new technologies; targeted capacity improvements to help reduce bottlenecks or better accommodate heavy freight movement; and separation of freight and passenger traffic on shared highway or rail corridors. ★ • Increase the efficiency of the supply chain and distribution network supporting Florida's businesses and consumers, including strategies to improve the balance of inbound and outbound freight shipments; enhance real-time route planning, asset tracking and load matching; and facilitate off-peak freight movements when this approach meets logistics and community needs. ★ • Expand the use of new technologies for freight movement, such as automated and connected truck technologies, drones, blimps, and hyper loops. ★ ***Regulatory Processes*** • Improve the ability of businesses involved in transportation to accomplish registration, permitting, and other regulatory transactions, through improving customer service, reducing transaction time, improving reliability, and adapting regulations and processes to reflect new technologies and services. ★ • Improve customs, immigration, cargo testing, and cargo certification processes through technology and partnerships that timely and efficiently meet business and visitor needs. ★

Goal Area: More Transportation Choices for People and Freight

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Increase the use of new mobility options and technologies that meet the needs of Florida's residents and visitors. ★ • Increase the share of person trips using alternatives to single occupancy motor vehicles. ★ • Increase the number of quality options for visitor travel to, from, and within Florida. ★ • Increase the number of quality options for moving freight to, from, and within Florida. • Increase the ease of connecting between multiple modes of transportation for complete trips. ★
Strategies	***Public Transportation, Active Transportation, and Transportation Disadvantaged*** • Provide quality transportation options and facilities to meet travel and mobility expectations from a more diverse population of residents and visitors including people who are aging in place, have limited mobility, are unable to drive or own a car, or choose not to own a car. These options might include high-quality public transportation services, active transportation, and driver services for medical and other needs. ★ • Increase the number of high-quality options for walking and bicycling, including buffered bike lanes, mixed use paths and off-road trails, and sidewalks and Americans with Disabilities Act (ADA)-compliant waiting areas for transit riders. ★ • Provide additional options for shorter distance trips (e.g., circulators, personal rapid transit, on-demand transit) that reflect the context of regional and community visions including economic development and land use decisions. ★ • Plan and develop public transportation, bicycle, and pedestrian facilities, and shared or automated vehicle services to deliver people within walking distance of trip origins and destinations. ★ • Improve public transportation and transportation disadvantaged services between developed and rural areas. ★ • Improve synchronization and connectivity between transportation modes and systems through better design, automated trip planning, schedule coordination, co-located terminals, and integrated payment solutions. ★ • Improve connectivity among local transit systems, between local and regional transit systems, and between transit and other modes. • Improve pedestrian, bicycle, and public transportation connectivity from a local to interregional scale to provide access to jobs, retail, and other destinations. ***Longer-Distance Trips*** • Provide cost-effective, competitive travel options for longer distance intrastate trips for people and freight using multiple modes (road, rail, transit, water, and air) that address changing market demands, technologies, and business models. ★

	• Expand transportation options for visitors to travel between Florida's regions, including improved intrastate air, rail, and water transportation services. ***New Technologies and Shared Economy*** • Anticipate and prepare for changes in technology, and societal shifts in transportation preferences and needs, and provide quality facilities and services to support them. ★ • Support research, development, and testing of automated and connected vehicle technologies for all users, and other technologies as they become available. ★ • Provide data and other support for new private sector business models, such as bicycle and vehicle sharing, automated and connected vehicles, transportation apps, and ride services. ★

Goal Area: Transportation Solutions that Support Florida's Global Economic Competitiveness

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Provide transportation infrastructure and services to support job growth in transportation-dependent industries and clusters. ★ • Increase transportation connectivity between Florida's economic centers and regions. • Increase transportation connectivity between Florida and global and national trading partners and visitor origin markets. • Increase the number of skilled workers in Florida's transportation industry. ★
Strategies	***Support for Targeted Industries and Clusters*** • Coordinate short-term transportation system maintenance, operations, and capacity decisions with economic development and job creation activities involving Florida's statewide targeted industries. ★ • Coordinate long-term, strategic transportation investments to support development of statewide and regional talent and innovation clusters, consistent with the Florida Strategic Plan for Economic Development and regional visions and economic development strategies. ★ • Promote the creation of clusters of logistics, distribution, and advanced manufacturing businesses in strategic locations with access to major highways and rail facilities, consistent with regional visions and economic development strategies. These could include intermodal logistics centers, foreign trade zones, and freight and logistics zones. ★ • Position Florida for enhanced public and private investments in the commercial space industry, leveraging the state's existing infrastructure assets. ★ • Provide transportation connectivity to Florida's military facilities to support economic development opportunities. ★ • Encourage private sector companies involved in research, development, manufacturing, and service activities for transportation equipment and technology to locate and expand in Florida. ★ ***Connectivity for Commerce*** • Improve the efficiency of connections between transportation hubs and economic centers including high-density employment concentrations and visitor destinations. • Expand the options for transportation connectivity between economic centers within common economic regions, building on regional visions and plans. • Invest in high capacity public transportation systems that connect urban centers to other urban centers and connect with other transportation modes throughout the state. • Continue to proactively plan for future statewide and interregional transportation corridors, including coordination with surrounding land uses and with compatible utility and other linear infrastructure.

	• Improve the efficiency and reliability of truck and rail corridors to adjacent states. • Improve terminal infrastructure and expand connectivity to other modes to make Florida's airports and seaports more attractive for investment, including direct international and domestic flights, home port and port of call cruise activity, and first-call import and last-call export ocean carrier service with emphasis on existing and emerging foreign markets. ★ • Provide incentives for private industry to develop priority connections between communities or regions where gaps exist. ★ ***Talent Supply*** • Collect and maintain statewide and regional data on talent supply and demand, including anticipated retirements of existing workforce, in transportation and related industries such as trade, logistics, and manufacturing. ★ • Identify and close talent supply gaps, including gaps in knowledge, skills, and abilities in critical occupations related to transportation, trade and logistics. ★ • Build workforce skills related to transportation technology and innovation. ★ • Strengthen regional talent supply systems for transportation, trade, and logistics that reflect the unique assets and market opportunities for Florida's economic regions. ★ • Create new or expand existing centers of talent and innovation in transportation related fields such as aerospace/aviation, maritime, and logistics. ★ • Encourage transportation agencies and authorities including airport, seaport, spaceport, transit, and highway operators to include talent supply elements in their long-range plans. ★ ***Partnerships*** • Formalize institutional partnerships and communication protocols between transportation and economic development agencies at the statewide, regional and local levels. ★ • Better align transportation and economic development priorities on a regional scale. Provide incentives or support realignment of boundaries to help strengthen collaborative partnerships and enable more efficient and effective decision making. • Strengthen partnerships between transportation and tourism development organizations. ★

Goal Area: Transportation Solutions that Support Quality Places to Live, Learn, Work, and Play

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Plan and develop transportation systems that reflect regional and community values, visions, and needs. • Increase customer satisfaction with Florida's transportation system. ★ • Increase accessibility to the transportation system for Florida's residents and visitors. ★ • Provide transportation solutions that contribute to improved public health. ★
Strategies	• Continue to support regional and community visioning processes, and use these visions to guide transportation decisions. • Encourage community design and multimodal transportation investments including technology applications and multi-purpose solutions that promote quality of life. • Plan for and balance transportation for the movement of goods and for personal mobility choices with compatible land uses. ★ • Continue to coordinate with local governments to better align transportation plans with existing and proposed land use plans, including consideration of the transportation needs of locations identified in regional and local plans for higher density, mixed use development; urban infill and redevelopment; industrial development; and maintaining rural character. • Develop and implement context-sensitive transportation solutions that reflect community values, needs, and character, such as comprehensive solutions for entire corridors. • Support opportunities for residents (especially millennials and elders) to live in compact urban settings through creating an environment that supports transit and active transportation options, including walking and bicycling. ★ • Promote walking, bicycling, and other forms of active transportation to improve public health. ★ • Use non-highway modes of transportation and new technologies for moving people and goods to reduce the need for road expansions and potential negative impacts on communities. ★ • Coordinate with and provide assistance to local governments as they create or retrofit mobility solutions for their communities, such as identifying priority areas for public transportation, corridors for bicycle or pedestrian enhancements, and roads emphasizing through traffic. ★ • Provide transportation options for visitors that promote Florida's unique historic, cultural, and natural resources, such as "Old Florida" historic roads, scenic highways, regional and interregional trails, and waterways. ★

Goal Area: Transportation Solutions that Enhance Florida's Environment and Conserve Energy

★ - Objective or strategy that includes ideas new to this update of the FTP

Objectives	• Plan and develop transportation systems and facilities in a manner which protects, and where feasible, restores the function and character of the natural environment and avoids or minimizes adverse environmental impacts. • Decrease transportation-related air quality pollutants and greenhouse gas emissions. • Increase the energy efficiency of transportation.
Strategies	***Environment*** • Better align large-scale transportation and conservation planning to maintain, and where possible, restore and enhance the integrity and connectivity of regionally significant lands and waters and to avoid, to the extent feasible, negative impacts on these lands and waters. • Encourage advanced, large-scale approaches to environmental mitigation that accomplish transportation and environmental stewardship goals together, such as coordination on land purchases and water storage and runoff. ★ • Improve collaboration and coordination between transportation planning and environmental planning, including wildlife corridors, water quantity/quality, air quality (including greenhouse gas emissions), noise pollution, and recreational space. • Reduce the transportation footprint by optimizing the use of existing transportation infrastructure, incorporating new technologies, and using permeable, recycled, and other "green" materials. ★ ***Energy*** • Minimize energy used to build, maintain, and operate transportation infrastructure. • Support the use of alternatives to traditional transportation fuels and energy sources through research, collaboration, public/private partnerships, infrastructure improvements, education, and incentives. ★ • Maximize the availability and use of public transportation, active transportation, and other innovative mobility options as methods of reducing greenhouse gas emissions and conserving energy. • Generate energy from transportation facilities, infrastructure and right of way, such as pavement charging systems, solar highways, solar rooftops, and solar panels in medians, or on noise abatement walls and paths. ★