

2050 MTP ACTION PLAN TO IMPLEMENT THE STRATEGIES OF THE PLAYBOOK

GOAL: ENHANCE SAFETY AND SECURITY

OBJECTIVES	STRATEGIES	IMPLEMENTATION PLAN ACTIONS	RESPONSIBLE AGENCY (IES)	
REDUCE THE NUMBER OF LIVES LOST AND INJURIES SUSTAINED ON MARYLAND'S TRANSPORTATION SYSTEM	Implement safety improvements on roadways where the Crash Severity index is high.	<ul style="list-style-type: none"> Implement safety mitigations based on the crash severity index 	SHA	
	Develop and implement effective engineering and technology solutions to reduce aggressive and distracted driving, using data driven methods and proven best practices.	<ul style="list-style-type: none"> Implement PSAP improvements Implement updated Bicycle Facility Selection Pursue grants to implement engineering and technology solutions 	SHA MVA MHSO	
	Identify and implement best practices for reducing transit assaults.	<ul style="list-style-type: none"> Operator training, legislative efforts 	MTA	
	Expand work zone enforcement and work with partners to enhance all enforcement.	<ul style="list-style-type: none"> Implement work zone safety task force recommendations 	SHA MVA MHSO	
MINIMIZE DISPARITIES IN SAFETY ACROSS MARYLAND'S DIVERSE COMMUNITIES	Pursue community engagement with diverse communities to understand their safety concerns.	<ul style="list-style-type: none"> Outreach and engagement on safety issues/needs Enhanced demographic tracking of crash data 	MVA MHSO	
	Implement system-wide roadway safety improvements and technology approaches that address the safety of vulnerable road users	<ul style="list-style-type: none"> Implement PSAP improvements in diverse communities Pursue grants to implement engineering and technology solutions in diverse communities 	SHA MVA MHSO	
ADDRESS MULTIMODAL SAFETY NEEDS TO SUPPORT A SAFE, SECURE, AND LOW STRESS TRANSPORTATION SYSTEM	Provide support for safe transit stops and vehicles, including Crime Prevention Through Environmental Design.	<ul style="list-style-type: none"> Develop guidelines for roadway/facility owners to incorporate Crime Prevention Through Environmental Design (CPTED) strategies to transit stops and stations 	MTA SHA	
	Advance designs that reimagine auto-centric roads as accessible multimodal corridors.	<ul style="list-style-type: none"> Update/finalize a Complete Streets policy Implement Complete Streets Initiatives and projects 	MDOT TSO and SHA led (with support from modal admins.)	
	Implement sustained complete streets building program to fill in gaps in active transportation networks.	<ul style="list-style-type: none"> Update the MDOT Statewide Trail Network / shared-use path plan Implement Complete Streets Initiatives and projects 	MDOT TSO and SHA	

MAINTAIN A SAFE SYSTEM DURING ADVERSE WEATHER EVENTS, MAN-MADE THREATS, AND OTHER SYSTEM DISRUPTIONS	Standardize operations, response, and scene safety practices with first responders and other key partners.	<ul style="list-style-type: none"> Implement transportation industry best practices to maintain safe operations and alert customers Perform preventative landscaping/maintenance near transportation assets, such as catenary power systems and fixed gateways 	SHA CHART MTA	
	Implement unified incident command with first responders.	<ul style="list-style-type: none"> Implement unified incident command with first responders Provide advance and real-time customer information on changing conditions and impacts to service 	SHA CHART	

GOAL: DELIVER SYSTEM QUALITY

OBJECTIVES	STRATEGIES	IMPLEMENTATION PLAN ACTIONS	RESPONSIBLE AGENCY (IES)	
INCREASE THE PERCENTAGE OF STATE-OWNED OR FUNDED FACILITIES AND ASSETS IN A STATE OF GOOD REPAIR	Invest in MDOT roadways to maintain pavement quality.	<ul style="list-style-type: none"> Advance projects in the system preservation program Install low embodied carbon pavement on state roadways where possible 	SHA MDTA	
	Invest in MDOT bridges to improve the condition of bridges and preserve existing bridges in fair or good condition.	<ul style="list-style-type: none"> Advance projects in the Bridge program <ul style="list-style-type: none"> Advance the I-68 Viaduct in Cumberland Install low embodied carbon pavement on bridges where possible 	SHA MDTA	
	Leverage MDOT's asset management program and data-driven analyses to prioritize investments in vital infrastructure and transit assets.	<ul style="list-style-type: none"> Update the MDOT Strategic Asset Management Plan (SAMP) Utilize annual criticality assessment to prioritize investments through the capital program process Modes to use their mode-developed asset management data, as well as their capital needs inventory, consistent with industry best practices and federal requirements to develop state of good repair capital programs that prioritize operations critical and safety critical assets 	MDOT wide/TSO led (with support from all modal admins.)	
MINIMIZE TRAVEL DELAYS AND IMPROVE RELIABILITY AND QUALITY	Work with local jurisdictions to prioritize the movement of transit vehicles in congested areas.	<ul style="list-style-type: none"> Support legislative actions for installation and enforcement of transit priority Work with locals to enhance and improve the MTA/Wmata/MTA Locally Operated Transit Systems (LOTS) related to routes, fares and connections SHA District improvements, such as resurfacing, intersection improvements, safety improvements, etc. 	TSO MTA SHA	

	Implement improvements to enhance the existing transportation system and reduce congestion on highway systems, focusing on integrated freeway and arterial management and operations.	<ul style="list-style-type: none"> • Develop pricing strategies to encourage smarter commuting options and innovative programs, such as the MBUF pilot study • Improve transportation connections across modes • Coordinate and implement TSMO improvements to reduce congestion on highway systems including implementing technology improvements including Intelligent Transportation System (ITS) measures where appropriate 	MDOT wide/ TSO leads and SHA leads (with support from all modal admins.)	
	Improve MTA transit on-time performance through operational and staffing policies.	<ul style="list-style-type: none"> • Invest in vehicle state of good repair including timely vehicle replacement and maintenance resources • Invest in transit priority initiatives and supporting infrastructure • Operator hiring and training to address shortages 	MTA TSO SHA	
	Address congestion and bottlenecks on nationally and regionally significant corridors to facilitate access to major employment, freight, and activity centers.	<ul style="list-style-type: none"> • Real-time information provided by CHART via Transportation Sensor Systems (TSS) • Modernize rail infrastructure identified in the Maryland State Rail Plan • Implement the Statewide Truck Parking Study and increase truck parking facilities throughout the state • Implement the Maryland Freight Plan • Develop and deploy Transportation Demand Management strategies 	SHA TSO MTA	
PROVIDE A MULTIMODAL SYSTEM RESILIENT TO CHANGING CONDITIONS AND HAZARDS	Identify assets that are vulnerable to flooding and inundation, and develop adaptation strategies such as reconstruction, relocation, and protective infrastructure.	<ul style="list-style-type: none"> • Develop asset inventory for those vulnerable to flooding • Develop and implement an adaptation plan for vulnerable assets 	MDOT wide/TSO led (with support from all modal admins.)	
	Invest in technology to facilitate 24/7 roadway clearance and public information of incidents through the Coordinated Highway Action Response Team (CHART).	<ul style="list-style-type: none"> • Advance real-time information provided by CHART via Transportation Sensor Systems (TSS) 	SHA	
	Prepare for future climate impacts on transportation infrastructure through site and stressor Identification, risk assessment, and adaptation development.	<ul style="list-style-type: none"> • Implement Climate Pollution Reduction Plan strategies 	MDOT TSO	
	Consider future maintenance costs of transportation infrastructure projects.	<ul style="list-style-type: none"> • Conduct state of good repair preventative maintenance assessment 	MDOT wide/TSO led (with support	

		<ul style="list-style-type: none"> • Adequately provide funding for maintenance costs and where possible to include state of good repair needs in discretionary grant pursuits 	from all modal admins.)	
ACCELERATE PROJECT COMPLETION THROUGH IMPROVED PROJECT DELIVERY	Leverage State and federal infrastructure funding with public, private, and other partners.	<ul style="list-style-type: none"> • Identify and pursue federal funding opportunities that maximize state dollars (and other dollars) • In partnership with local and state agencies, leverage state, local and federal resources to advance projects and pilot studies (i.e., MBUF) • Advance projects through innovative construction 	MDOT wide/TSO led (with support from all modal admins.)	
	Refine MDOT’s project delivery practices to improve decision making and reduce project risks.	<ul style="list-style-type: none"> • Develop and implement a project delivery pipeline • Assess contract incentives/workforce development opportunities for key projects, including the use of Project Labor Agreements • Identify and address critical staffing bottlenecks / process issues that reduce program delivery capacity <ul style="list-style-type: none"> ○ Advance the Bay Crossing Tier 2 NEPA study 	MDOT wide/TSO led (with support from all modal admins.)	
	Partner with local jurisdictions to implement a comprehensive federal grant strategy.	<ul style="list-style-type: none"> • Implement comprehensive federal discretionary grant strategy 	MDOT wide/TSO led (with support from all modal admins.)	
	Develop a transparent project prioritization system that strategically allocates resources to maximize return on investments and align with policy goals.	<ul style="list-style-type: none"> • Develop and implement a project prioritization system • Identify new tools and technologies to facilitate decision-making 	MDOT TSO	

GOAL: PROMOTE ENVIRONMENTAL STEWARDSHIP

OBJECTIVES	STRATEGIES	IMPLEMENTATION PLAN ACTIONS	RESPONSIBLE AGENCY (IES)	
MINIMIZE FOSSIL FUEL CONSUMPTION, REDUCE GREENHOUSE GAS EMISSIONS, AND IMPROVE AIR QUALITY	Employ, Incentivize and execute Travel-Demand Management (TDM) to reduce vehicular trips.	<ul style="list-style-type: none"> • Enhance TDM program and grow business partners by increasing marketing and financial/and or tax-based incentives • Promote opportunities for teleworking, and alternative or flexible work hours to help reduce congestion through Commuter Choice Maryland • Grow the CommuterCash app (formerly incenTrip) 	MDOT TSO	

		<ul style="list-style-type: none"> Investigate innovative TDM strategies and pursue grant opportunities 		
	Implement policies and incentives to encourage mode shift.	<ul style="list-style-type: none"> Implement and track strategies to encourage non-single occupancy vehicle mode shift and reduce VMT Implement TDM and micromobility (i.e., scooters, e-bike, etc.) incentives 	MDOT wide/TSO led (with support from all modal admins.)	
	Address air pollution through emissions compliance.	<ul style="list-style-type: none"> Track GHG and regional air quality emission targets and compliance Encourage and incentivize retrofits and/ or replacements of diesel-powered non-highway engines with low or zero carbon alternatives and implement Carbon Reduction Strategies Invest in transit vehicle replacements to zero-emissions transit vehicles across the statewide transit operators 	MDOT wide/SHA led (with support from all modal admins.)	
	Promote and/or incentivize fuel-efficient technologies for medium and heavy-duty trucks.	<ul style="list-style-type: none"> Implement strategies in the Freight Plan related to truck technologies and fuel efficiencies Deploy Commercial Vehicle Technologies such as Idle Reduction, Low-Carbon Fleet, and Dynamic Routing Incentivize low carbon fuels and infrastructure and implement Carbon Reduction Strategies 	MDOT wide/SHA led (with support from all modal admins.)	
	Expand and enhance roadways strategically through context sensitive design, in order to minimize impacts to air quality and emissions.	<ul style="list-style-type: none"> Implement context sensitive design in projects, in line with complete streets policy Track context sensitive design elements per capital construction project 	MDOT TSO SHA	
SUPPORT THE WIDESPREAD ADOPTION OF ALTERNATIVE FUELS, ELECTRIC VEHICLES AND INNOVATIVE TECHNOLOGIES	Increase electric vehicle charging infrastructure, including in rural areas and overburdened and underserved areas.	<ul style="list-style-type: none"> In partnership, increase and promote EV Charging Infrastructure and use around the state Identify potential and future EV/E-bike charging sites Install electric vehicle charging devices at parking lots across the Maryland transit system 	MDOT wide/TSO led (with support from all modal admins.)	
	Convert the MDOT fleet to EVs and alternative fuels.	<ul style="list-style-type: none"> Pursue grant opportunities for EV fleet conversion Continue and track zero-emission transition of transit and fleet vehicles 	MDOT wide/TSO led (with support from all modal admins.)	
PROTECT AND ENHANCE THE NATURAL ENVIRONMENT THROUGH AVOIDANCE,	Conduct thorough environmental impact assessments (EIA) for transportation projects to identify and address potential adverse impacts on the natural environment.	<ul style="list-style-type: none"> Create criteria for EIAs that include assessment of potential adverse impacts on the natural environment 	MDOT wide/TSO led (with support from all modal admins.)	
	Continue to coordinate with other State agencies to heighten the awareness of the	<ul style="list-style-type: none"> Track partner agency coordination 	MDOT wide/TSO led (with support	

MINIMIZATION, AND MITIGATION ADVERSE IMPACTS RELATED TO TRANSPORTATION INFRASTRUCTURE	value and vulnerability of the State’s water and natural resources.	<ul style="list-style-type: none"> Pursue grant opportunities for education for water and natural resource protection 	from all modal admins.)	
	Develop and implement a “Green Port Strategy” consistent with industry trends and initiatives including U.S. EPA’s Strategy for Sustainable Seaports.	<ul style="list-style-type: none"> Develop and implement “Green Port of Maryland” strategy at the Port of Baltimore Continue the Port of Baltimore Drayage Truck Replacement Program Support electrification and use of alternative fuels for cargo handling and other Port-related equipment 	MPA (with support from MDOT TSO)	
EMPLOY RESOURCE PROTECTION AND CONSERVATION PRACTICES IN PROJECT DEVELOPMENT, CONSTRUCTION, OPERATIONS, AND MAINTENANCE OF TRANSPORTATION ASSETS	Incorporate innovative practices, including the efficient reuse of construction materials, to protect and conserve natural resources in the maintenance and operations of the transportation system.	<ul style="list-style-type: none"> Incorporate conservation and protective practices into the maintenance and operations of the transportation system Pursue discretionary grant opportunities for innovative maintenance and operation costs 	MDOT wide/ TSO led (with support from modal admins.)	
	Mitigate stormwater runoff with green infrastructure features to protect sensitive aquatic ecosystems like the Chesapeake Bay.	<ul style="list-style-type: none"> Develop and implement stormwater runoff mitigation best practices 	MDOT wide/ TSO led (with support from modal admins.)	
	Develop a comprehensive Environmental Management System.	<ul style="list-style-type: none"> Create an enterprise-wide Environmental Management System 	MDOT wide/ TSO led (with support from modal admins.)	
	Implement a comprehensive transportation resilience program aligned with the federal PROTECT initiative.	<ul style="list-style-type: none"> Create a comprehensive transportation Resilience Improvement Plan 	MDOT wide/ TSO led (with support from modal admins.)	

GOAL: SERVE COMMUNITIES AND SUPPORT THE ECONOMY

OBJECTIVES	STRATEGIES	IMPLEMENTATION PLAN ACTIONS	RESPONSIBLE AGENCY (IES)	
IMPROVE TRANSPORTATION SYSTEM AND MDOT SERVICES	Improve the tracking, responsiveness, and time-to-resolution of all electronic, telephone, written, and in-person correspondence.	<ul style="list-style-type: none"> Develop and implement a correspondence plan/policy 	MDOT TSO	
	Improve customer experience through the implementation of the MVA Premier Customer Service Promise.	<ul style="list-style-type: none"> Continue to Implement the MVA Premier Customer Service Promise 	MVA	

	Provide enhanced training and employee development for MDOT employees interacting directly with our users.	<ul style="list-style-type: none"> • Develop and implement MDOT employee training 	MDOT wide/ TSO led (with support from all modal admins.)	
	Implement a new fare collection system that allows for transfers between MTA services and LOTS.	<ul style="list-style-type: none"> • Develop and implement new fare collection system that allows for transfers between MTA, WMATA, and LOTS services 	MTA WMATA	
	Improve transportation connections and mobility on the highway network.	<ul style="list-style-type: none"> • Ensure multimodal plans and network integration in modal plans <ul style="list-style-type: none"> ○ Advance the I-95/I-495 at Medical Center Drive Project ○ Advance the I-81 Phase 2 Corridor Expansion • Implement TSMO plans 	SHA MTA	
APPLY ENHANCED TECHNOLOGIES TO IMPROVE COMMUNICATION AND RELAY REAL-TIME INFORMATION	Improve the quality, accuracy, and accessibility of real-time travel information for all modes.	<ul style="list-style-type: none"> • Implement CHART and TSS upgrades to provide real-time information to travelers and stakeholders 	SHA	
	Provide reliable and accessible real-time modal choice information to customers and stakeholders.	<ul style="list-style-type: none"> • Implement TSS and Common Operations Platform 	MDOT TSO SHA	
	Improve MobilityLink, the MDOT app for paratransit riders to book, manage trips, and monitor vehicle location in real time.	<ul style="list-style-type: none"> • Track MobilityLink improvements 	MTA	
	Address the causes of missed transit trips.	<ul style="list-style-type: none"> • Develop an integrated system that provides real-time transit arrival/departure information and service alerts across MTA, WMATA, and LOTS services 	MTA	
INCREASE TRANSIT USE, ACTIVE TRANSPORTATION, AND TOD	Support LOTS to enhance their service to meet local needs.	<ul style="list-style-type: none"> • Implement strategies from the Statewide Transit Plan to support LOTS to enhance their services to meet statewide connectivity and local needs 	MTA	
	Develop a statewide bicycle network through the Maryland Pedestrian and Bicycle Plan.	<ul style="list-style-type: none"> • Develop a statewide shared-use path network • Update the MDOT Statewide Trail Network / shared-use path plan • Implement updated Bicycle Facility Selection 	MDOT SHA (with support from TSO)	
	Jumpstart TOD activity at key locations in coordination with local jurisdictions.	<ul style="list-style-type: none"> • Implement TOD Program strategies • Leverage TOD Program activities to support economic growth and improved transportation connectivity 	MDOT TSO (with support from MTA)	
	Implement the Pedestrian Safety Action Plan (PSAP) to create safer conditions which would support communities and the economy.	<ul style="list-style-type: none"> • Implement SHA PSAP strategies and improvements 	MDOT TSO SHA	
	Support mixed use development around transit stations, stops and hubs.	<ul style="list-style-type: none"> • Implement TOD Program strategies in coordination with transit station improvements 	MDOT TSO MTA	

IMPROVE QUALITY OF LIFE BY PROVIDING ACTIVE TRANSPORTATION AND TRANSIT ACCESS TO JOBS AND OPPORTUNITIES	<p>Increase transit, high-occupancy vehicle, carpool, and vanpool options to connect communities to jobs at key employment centers.</p>	<ul style="list-style-type: none"> • Identify key employment centers and develop strategies to increase multi-modal connections <ul style="list-style-type: none"> ○ Advance the I-795/Dolfield Road interchange ○ Improve US 15 and US 40 from I-70 to MD 26 • Improve and expand regional connections to major urban areas and significant job centers (i.e., BWI) <ul style="list-style-type: none"> ○ Complete the Purple Line ○ Advance the Baltimore Red Line ○ Assess Southern Maryland Rapid Transit ○ In partnership with Amtrak, complete the Frederick Douglass Tunnel ○ In partnership with Amtrak, complete the Susquehanna River Crossing 	<p>MTA (with support from MDOT TSO)</p>	
	<p>Coordinate with MTA, WMATA, and local transit agencies to enhance scheduling, station stops/hubs, and ticket integration to create seamless regional service.</p>	<ul style="list-style-type: none"> • Enhance coordination with local partners to streamline and enhance scheduling, stops/hubs, and ticket integration <ul style="list-style-type: none"> ○ In partnership, advance the Baltimore Penn Station Redevelopment 	<p>MTA (with support from MDOT TSO)</p>	
	<p>Strategically invest to improve connectivity and comfort of pedestrian and bicycle networks within and between activity centers and for both on and offroad facilities to increase use.</p>	<ul style="list-style-type: none"> • Prioritize bicycle and pedestrian projects that improve connectivity and comfort to activity centers • Implement the actions and recommendations of the Bicycle and Pedestrian Master Plan • Track level of traffic stress (LTS) progress on bicycle and pedestrian projects that improve access/connections 	<p>MDOT TSO SHA</p>	
	<p>Update and apply a complete streets policy on all applicable projects.</p>	<ul style="list-style-type: none"> • Apply updated MDOT Complete Streets Initiatives and policies to applicable projects • Implement updated Bicycle Facility Selection 	<p>MDOT TSO SHA</p>	
	<p>Partner with Amtrak to invest in passenger rail improvements in the Northeast Corridor.</p>	<ul style="list-style-type: none"> • Leverage Amtrak funding with MDOT state and federal funding for rail improvements <ul style="list-style-type: none"> ○ In partnership with Amtrak, complete the Frederick Douglass Tunnel ○ In partnership with Amtrak, complete the Susquehanna River Crossing 	<p>MDOT TSO MTA SHA</p>	
	<p>Evolve MARC to serve as a true regional rail system that connects to interregional job hubs and supports Maryland's economy.</p>	<ul style="list-style-type: none"> • Through the MARC Growth and Transformation Plan, identify rail projects that will enhance connections of the MARC system to interregional job hubs <ul style="list-style-type: none"> ○ In partnership with Amtrak and others, Close the Gap between Delaware and Virginia on 	<p>MDOT TSO MTA SHA</p>	

		<p>MARC – MARC Growth and Transformation Plan</p> <ul style="list-style-type: none"> ○ Assess the MARC Brunswick Line 		
PRIORITIZE THE TRANSPORTATION NEEDS OF UNDERSERVED AND OVERBURDENED COMMUNITIES IN PROJECT SELECTION	Identify opportunities to prioritize underserved and overburdened communities in project selection, scoping, and design.	<ul style="list-style-type: none"> • Consider CSNA/Environmental Justice criteria when reviewing/selecting projects • Pursue grant opportunities that provide connections to underserved and overburdened communities 	MDOT TSO	
	Ensure language accessibility in transportation planning and operation.	<ul style="list-style-type: none"> • Conduct a review of MDOT language for accessibility 	MDOT TSO	
	Improve paratransit and fixed-route service.	<ul style="list-style-type: none"> • Review paratransit/mobility and fixed-route services and develop appropriate strategies to improve 	MTA	
IMPROVE THE EFFICIENCY AND COMPETITIVENESS OF THE PORT OF BALTIMORE AND BWI MARSHALL AIRPORT	Undertake robust engagement with airport, port, business, and community stakeholders to inform development plans, with a particular focus on inclusive engagement.	<ul style="list-style-type: none"> • Develop and implement an outreach and engagement plan, track progress and satisfaction • Pursue grant opportunities for expanded outreach and engagement 	MDOT TSO MAA MPA	
	Improve access for cargo and the supply chain to the port, airport and statewide to accommodate growth, with considerations of ways to limit impacts to neighboring communities.	<ul style="list-style-type: none"> • Identify areas to improve cargo access and supply chain efficiencies <ul style="list-style-type: none"> ○ Complete the Howard Street Tunnel ○ Ensure there is adequate dredged-placement capacity to maintain the shipping channels by advancing the Mid-Bay Islands Restoration Project. 	MPA MAA	
	Advance airport development plans to enhance competitiveness and customer experience.	<ul style="list-style-type: none"> • Complete airport development plan(s) • Complete the BWI Marshall Airport Concourse A/B Connector Project • Track customer satisfaction 	MAA	