

Appendix E - Implementation Matrix

OBJECTIVE #	OBJECTIVE	RECOMMENDED ACTION/STRATEGY	PERFORMANCE MEASURE	IMPLEMENTATION
GOAL: Economy				
Improve Illinois' economy by providing transportation infrastructure that supports the efficient movement of people and goods.				
Objective 1:	Encourage regional coordination in the identification of solutions to transportation problems to provide for efficient movement of freight, people and services supporting economic growth.	Support multimodal transportation projects that create growth and employment opportunities throughout the state.	Support the incorporation of freight movement and economic vitality objectives within IDOT-funded regional studies	<ul style="list-style-type: none"> Commit IDOT staff to participate in the planning and programming processes of the 16 MPOs to support projects consistent with IDOT goals, including economic growth Lead: IDOT Districts, IDOT Office of Planning and Programming, IDOT Office of Intermodal Project Implementation Partners: MPOs Expand consultation, coordination and outreach for development of multiyear plans and programs Lead: IDOT Office of Planning and Programming, IDOT Office of Communication, IDOT Districts, IDOT Office of Intermodal Project Implementation Partners: Illinois State Freight Advisory Council, MPOs, other planning partners Conduct before-after studies of IDOT supported transportation projects and their economic impacts Lead: IDOT Office of Planning and Programming Partners: IDOT Office of Highways Project Implementation Enhance the measurement of mobility-related objectives in the PBPS tool by developing a statewide traffic model Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, MPOs, other planning partners
		Enhance coordination and collaboration in planning, programming and implementation activities with regional and local partners.	Regular IDOT participation in regional planning and programming meetings held by the state's 16 MPOs	
		Ensure the development of state multi-year and annual multimodal plans and programs includes consultation and coordination with regional and local planning partners.	Ensure preparation of state multi-year and annual multimodal plans and programs includes consultation and coordination with regional and local planning partners	
Objective 2:	Support projects that improve connectivity and coordination of services to enhance continuity and accommodate the efficient movement of people, goods, and services across all modes to address intermodal efficiency.	Review and evaluate intermodal connections across the state.	Prepare regular assessment of performance of designated National Highway System (NHS) intermodal connectors	<ul style="list-style-type: none"> Develop regular report on Illinois NHS Intermodal Connectors Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, Illinois State Freight Advisory Council, MPOs, other planning partners Develop regular report on Illinois Waterborne Transportation Lead: IDOT Office of Planning and Programming Partners: Illinois Department of Commerce and Economic Opportunity, Army Corps of Engineers, Illinois State Freight Advisory Council, Port Districts/Terminals Develop new marketing campaign for intercity passenger rail Lead: IDOT Office of Communications Partners: IDOT Office of Intermodal Project Implementation
		Improve efficiency of transfers of freight and passengers between modes.	Number of aviation, highway, and rail program investments that support improved use, safety and ease of access to intermodal facilities	
		Work collaboratively with ports and waterways stakeholders to identify and address issues related to transporting commerce via navigable waterways.	Prepare regular waterborne commerce report assessing the utilization of port districts and other port terminals	
		Advocate for the success of Illinois' passenger rail program.	Increased education and marketing of passenger rail options and transfer options between modes	
		Identify shifts in population and employment centers and ensure that there are adequate airport services provided to those population and employment centers.	Percent of population and employment with drive access to a commercial airport	
Objective 3:	Support land use and transportation connectivity.	Support land use and transportation connectivity, especially in and near intercity passenger rail and commuter rail stations, through planning studies, project analyses and public education programs.	Amount of funds supporting land use and transportation connectivity and the number of funded studies	<ul style="list-style-type: none"> Develop regular report on land use and connectivity Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, MPOs, other planning partners Enhance the measurement of land use and connectivity-related objectives in the Performance Based Prioritization System (PBPS) tool Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, MPOs, other planning partners
		Enhance consideration of land use and transportation connectivity through coordination and collaboration in planning and programming efforts.	Regular participation in MPO and regional planning and programming efforts that implement land use and transportation connectivity	
		Enhance performance-based project selection process and accompanying tools to ensure consideration of land use and transportation connections.	Additional factor(s) within performance based project selection tool to address land use and transportation connections	

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Objective 4:	Identify and address issues affecting freight commerce and passenger services.	Collaborate and consult with freight and passenger stakeholders to address regional, statewide and multi-state freight and passenger transportation issues.	Amount of funding specifically for freight and/or passenger connection improvement projects	<ul style="list-style-type: none"> Continued participation and consultation with freight and passenger transportation industry partners through the Mid-America Freight Coalition, Illinois State Freight Advisory Council, Will County Freight Advisory Council, and other stakeholder groups Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, Illinois State Freight Advisory Council, Mid-America Freight Coalition, MPOs, other planning partners Develop and implement Illinois Competitive Freight Grant Program Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, Illinois State Freight Advisory Council, MPOs, other planning partners Develop research program with Illinois Universities targeting innovative freight vehicle improvement Lead: IDOT Office of Planning and Programming Partners: Illinois Universities Establish Illinois State Autonomous Vehicle Advisory Council Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, autonomous vehicle representatives, safety and insurance representatives
		Provide investment and technical support to transportation projects that improve freight and transportation connectivity through the integration of multimodal service options.	Amount of funding for innovative freight vehicle improvement studies and tests	
		Support new technologies that provide improved operational efficiencies and travel/route planning and safety.	Measure the progress toward full implementation of the web-based roadway information system	
		Support state funding to public aviation to assist the local community efforts to keep and attract additional business to their communities.	Amount of funding for improved airport access	
		Address policy and planning implications of autonomous vehicles being introduced within both passenger and commercial/freight fleets.	Number of new policies and/or processes to address autonomous vehicles	
Objective 5:	Support economic development in Illinois communities.	Support Illinois communities through economic development grants under programs like the Economic Development Program.	Number of communities that benefit and the number of jobs supported (created/retained) from IDOT economic development grants	<ul style="list-style-type: none"> Commit IDOT staff to supporting economic development through transportation improvement projects and economic development grant programs Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, Illinois Department of Commerce and Economic Opportunity, economic development groups Develop regular report on the economic benefits of Illinois transportation infrastructure investments Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, IDOT Office of Intermodal Project Implementation Enhance the measurement of economy-related objectives in the PBPS tool using REMI and state traffic model development Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, Illinois Department of Commerce and Economic Opportunity, MPOs, Other planning partners
		Invest in highway projects that improve access to intermodal facilities in order to improve economic competitiveness.	Number of highway and transit investments that provide access to intermodal and multimodal facilities	
		Invest in intermodal projects that meaningfully increase and improve access to economic growth opportunities.	Number of freight related projects that enhance access to supply chains or that enhance access to economic growth opportunities	
			Number of studies funded that support economic development	
GOAL: Livability				
Enhance the quality of life across the state by ensuring that transportation investments advance local goals, provide multimodal options, and preserve the environment.				
Objective 1:	Enhance collaboration and coordination between IDOT and regional and local transportation agencies and adjoining states in transportation decision-making.	Collaborate with Metropolitan Planning Organizations (MPOs) and adjoining states to collectively benefit from joint multimodal planning efforts.	Number of executed planning intergovernmental agreements	<ul style="list-style-type: none"> Develop consistent outreach and engagement strategies for IDOT Districts to utilize on projects. Lead: IDOT Office of Communications, IDOT Bureau of Design & Environment, IDOT Bureau of Local Roads and Streets Partners: IDOT Districts Facilitate and encourage the collaboration and development of a waterways forum to provide guidance to IDOT on ports and waterways issues. Lead: IDOT Office of Planning and Programming Partners: IDOT Office of Legislative Affairs Encourage performance based project selections processes for local project selection. Lead: IDOT Office of Planning and Programming Partners: IDOT Bureau of Local Roads and Streets Strengthen the existing Illinois State Freight Advisory Council (ISFAC). Lead: IDOT Office of Planning and Programming, ISFAC Partners: Public/Private Sector Representatives, Freight Stakeholders
		Enhance coordination with MPOs on freight and multimodal planning.	Participation in industry stakeholder/user groups	
		Seek partnerships with stakeholders to support the promotion of Illinois' intermodal system.	Number of agencies utilizing a performance-based project selection process	

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Objective 2:	Support projects that enhance the livability of Illinois - making connections between people, and the places they need to go.	Use performance-based project selection tool results to prioritize projects for funding.	Percent of funding spent on projects that provide access to multimodal choices	<ul style="list-style-type: none"> Develop sustainability/livability best practices to be verified in the preliminary phases of project development. Lead: IDOT Bureau of Design and Environment Partners: IDOT Bureau of Local Roads and Streets Promote sustainable multimodal transportation services, in an effort to reduce single occupancy vehicle (SOV) travel. Lead: IDOT Office Planning and Programming, IDOT Bureau of Operations Partners: IDOT Office of Communications, IDOT Office of Highways Project Implementation Refine and review livability data and performance management for project prioritization. Lead: IDOT Office Planning and Programming Partners: Local Stakeholders
		Develop livability measures to prioritize non-highway projects for funding.	Number of multimodal connections within Illinois	
		Consider enhanced multimodal connectivity when prioritizing projects for funding.	Number of livability measures used to prioritize projects	
Objective 3:	Enhance the effectiveness of the multimodal transportation system through better traveler information, utilizing technology where possible, to maximize efficiency of existing facilities and services.	Better understand the need for and implement Intelligent Transportation Systems (ITS) statewide and invest in proven ITS strategies.	Compare changes in vehicle speed, crash rates and traffic volumes from the incorporation of ITS in major metro areas	<ul style="list-style-type: none"> Utilize the state ITS Architecture and Strategic Plan Update to align funding for planning and installation of ITS strategies and improvement of existing facilities. Lead: IDOT Office of Planning and Programming, IDOT Bureau of Operations Partners: MPOs, Counties, Municipalities Collaborate planning efforts between transit providers to increase service connectivity, technological improvements for riders and overall promotion of multimodal transportation. Lead: IDOT Office of Intermodal Project Implementation, IDOT Bureau of Planning Partners: Regional Transportation Authority, Counties, Transit Providers Review current incident management and notification systems and align funding for improvements. Lead: IDOT Bureau of Operations, IDOT Office of Communications Partners: IDOT Bureau of Safety Programs and Engineering Support transit agencies providing GTFS data to Google. Lead: IDOT Office of Intermodal Project Implementation Partners: IDOT Bureau of Planning Research how social media can be used to enhance the transportation system and provide best practices/resources to local transportation agencies. Lead: IDOT Office of Communications Partners: IDOT Bureau of Local Roads and Streets, IDOT Office of Planning and Programming
		Provide General Transit Feed Specification (GTFS) data to Google for inclusion in Google Maps.	Percentage of transit vehicles and routes supplying General Transit Feed Specification (GTFS) data	
		Improve transit ridership levels and riders' experiences through the use of rider-oriented technology.	Creation or expansion of mobility management projects	
		Improve transit connectivity between service areas and providers.	Create a quantitative and comprehensive framework to enhance transportation agency social media programs	
		Promote multimodal transportation through the use of social media.	Review typical incident management times	
		Centralize incident notification, to provide timely incident information to travelers.		
		Implement ITS architecture.		
Objective 4:	Enhance existing policies and practices related to under-served populations so outreach and inclusion are effective and go beyond meeting the minimum federal requirements.	Review and enhance existing IDOT policies and practices related to environmental justice and under-served populations.	Number of policies and practices changed to better accommodate under-served populations	<ul style="list-style-type: none"> Facilitate communication and promote collaboration between under-served population areas and transit agencies and organizations via the state MPOs. Lead: IDOT Office of Planning and Programming Partners: MPOs, Transit Agencies, Municipalities, Under-Served Population Stakeholders Update IDOT policies and practices related to environmental justice and under-served populations. Lead: IDOT Bureau of Design and Environment, IDOT Office of Communications, IDOT Office of Planning and Programming Partners: Environmental Justice Population Organizations, MPOs, Under-Served Population Stakeholders Identify ways to add equity considerations into project prioritization processes. Lead: IDOT Office of Planning and Programming Partners: IDOT Bureau of Design and Environment
		Improve effectiveness in receiving feedback from under-served populations during the transportation planning and design process.	Number of outreach opportunities specifically directed at under-served populations	
		Identify unique ways to mitigate impacts of new projects on under-served populations.	Number and availability of affordable alternative modes of transport for under-served populations	
		Explore options to implement supply and demand based pricing to support additional service or infrastructure.		
		Develop a public involvement manual for use on transportation projects.		

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Objective 5:	Utilize a sustainable approach to transportation planning, design, construction and operation which promotes environmental stewardship and energy conservation.	Incorporate and support sustainable technology in operations of current and future IDOT assets, including multimodal transportation services.	Number of sustainability audits of IDOT facilities	<ul style="list-style-type: none"> Incorporate sustainable solutions in the operation of IDOT's Transportation System. Lead: IDOT Office of Highway Project Implementation Partners: IDOT Office of Planning and Programming Facilitate the use of sustainable technology and update requirements on usage of the technology in existing and future IDOT guidance (i.e. plans and manuals). Lead: Office of Highway Project Implementation Partners: Local Stakeholders, IDOT Bureau of Local Roads and Streets Enhance Performance Based Project Selection by consideration of metrics for air quality improvement. Lead: IDOT Bureau of Programming Partners: IDOT Bureau of Planning Increase the use of I-LAST during project development. Lead: IDOT Bureau of Design and Environment Partners: IDOT Office of Planning and Programming
		Increase the use of recycled materials in construction projects.	Percentage of recycled materials used on construction projects	
		Reduce emissions by implementing performance-based project selection.	Percent of non-SOV travel	
		Support reduction in the use of single occupancy vehicles (SOVs).	Total emissions reductions of Congestion Mitigation and Air Quality (CMAQ) funded projects	
		Realize positive air quality gains and reduced energy consumption with efficient passenger and freight operations.	Percent of per capita emissions of greenhouse gases reduced	
			Number of energy/fuel efficient vehicles added annually to IDOT and other fleets statewide	
			Number of TDM efforts implemented and coordinated in Illinois.	

GOAL: Mobility

Support all modes of transportation to improve accessibility and safety by improving connections between all modes of transportation.

Objective 1:	Enhance intermodal freight connectivity and mobility to improve continuity and accommodate the efficient movement of goods and services.	Explore scenarios where modal connections can be improved to facilitate shipments by rail, water and air.	Modal breakdown of annual shipping volumes	<ul style="list-style-type: none"> Begin outreach efforts to freight companies and stakeholders in an effort to identify and address issues related to freight transportation in Illinois. Lead: IDOT Office of Planning and Programming, IDOT Bureau of Communications Services Partner(s): IDOT Districts, Freight Companies, Freight Stakeholders Support efforts to freight stakeholders to explore where modal connections can be improved to facilitate shipments by rail, water and air. Lead: IDOT Office of Planning and Programming Partner(s): Local Government, Planning Agencies, Freight Companies, Freight Stakeholders Provide resources to MPOs on using the NPMRDS data source to measure performance. Lead: IDOT Office of Planning and Programming Partner(s): MPOs Identify how ITS can improve freight movement within and through the state. Lead: IDOT Office of Planning and Programming, IDOT Bureau of Operations Partner(s): Freight Stakeholders Develop live, internet-based, intermodal dashboard of approved freight routes, current travel times and rerouting suggestions. Lead: IDOT Bureau of Operations Partner(s): Freight Stakeholders, IDOT Office of Planning and Programming
		Work collaboratively with freight stakeholders to identify and address issues related to transporting freight within Illinois.	Number of intermodal facilities for freight movements	
		Enhance intermodal connectivity by identifying and implementing improvements needed to truck routes, ports, airports and rail lines that provide access to Illinois intermodal facilities.	Number of intermodal facilities with NHS connections	
		Establish procedures to use the National Performance Management Research Data Set (NPMRDS) to calculate performance.	Truck Travel Time Reliability (TTTR) index	
		Evaluate existing and proposed innovative intelligent transportation systems (ITS) technology to improve safety.	ITS Statewide Architecture and Strategic Plan Update	
		Explore ITS technologies to foster the most efficient movement of freight.	Live, internet-based, intermodal dashboard of approved freight routes, current travel times and rerouting suggestions	
		Investigate potential use of commercial connected/ autonomous vehicles (CAV) for the movement of freight.	Number of studies concerning commercial CAV and impacts on the freight transportation network	

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Objective 2:	Invest in and support multimodal transportation infrastructure improvements and strategic performance-based expansion of services that support the effective movement of passengers.	Identify and define regional multimodal demands and needs, and/or associated costs across the state.	Percent of funding programmed on projects that provide access to multimodal choices	<ul style="list-style-type: none"> Continue to develop technology enhancements to relay information to the traveling public. Lead: IDOT Office of Intermodal Project Implementation, IDOT Office of Communications Partner(s): Transit Providers Begin analyzing NPMRDS data for Illinois and generate initial data sets for performance measures. Lead: IDOT Office of Planning and Programming Partner(s): Metropolitan Planning Organizations Maintain and adjust policies that will ensure the continued efficacy and improvement of multimodal facilities/connection points and HTSP providers. Lead: IDOT Office of Intermodal Project Implementation Partner(s): IDOT Office of Planning and Programming Monitor all STIP projects featuring pedestrian and bicycling facilities. Log all newly constructed facilities. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Office of Intermodal Project Implementation
		Identify shifts in population and employment centers and ensure adequate services are provided to these areas.	Establishment of facilities inventory	
		Develop tools for identification and development of Complete Streets projects.	Number of multimodal facilities for passenger movement and use	
		Work with Human Services Transportation Planning (HSTP) coordinators and adjacent transit providers to determine feasible times and locations for transit transfers between providers.	Percent of funding programmed on projects with bicycle/pedestrian/alternative transportation elements	
		Identify the need for transit signal prioritization and other related technologies/ strategies for improving multimodal corridors.	Creation or expansion of the Transit Riders Information Project (TRIP), or similar system	
		Increase the coordination between freight rail, intercity passenger rail, and commuter rail networks and other transportation modes.	Number of transit signal priority measures implemented	
		Develop statewide bike/pedestrian facilities inventory and prioritize projects to fill in gaps in the overall system.	Percentage of completion of passenger rail system	
		Ensure use of performance-based project selection processes on all new IDOT projects.	Number of Complete Streets projects completed	
		Foster a collaborative environment for CAV work and innovations, specifically focusing on the movement of freight.		
Objective 3:	Increase route efficiency and safety for all users by improving infrastructure condition and addressing capacity issues.	Identify and rank worst bottlenecks and chokepoints to establish an action plan to remediate selected areas.	<p>Federally required performance measures:</p> <ul style="list-style-type: none"> Number and rate of fatalities (per 100 Million VMT and mode) Number and rate of serious injuries (per 100 Million VMT and mode) Number of non-motorized fatalities and non-motorized serious injuries Percentage of NHS bridges classified as being in good condition Percentage of NHS bridges classified as being in poor condition Percentage of Interstate pavement in good condition Percentage of Interstate pavement in poor condition Percentage of non-Interstate NHS pavement in good condition Percentage of non-interstate NHS pavement in poor condition Percentage of person-miles traveled on the Interstate considered reliable Percentage of person-miles traveled on the non-Interstate NHS considered reliable Truck travel time reliability index Annual hours of peak hours excessive delay, per capita Percent of non-SOV travel Mileage of highly congested routes Number of rail-crossing fatalities, serious injuries and crashes reported Number of congestion management strategies 	<ul style="list-style-type: none"> Increase participation in and continue support of the Strategic Highway Safety Plan, working towards Driving Zero Fatalities to a Reality. Lead: IDOT Bureau of Safety Programs and Engineering Partner(s): MPOs, Counties, Municipalities Develop and share crucial safety information and support educational programs aimed at reducing dangerous behaviors committed by transportation users and operators. Lead: IDOT Bureau of Safety Programs and Engineering Partner(s): IDOT Office of Communications Develop and share bottleneck analysis and action plan to remediate selected areas. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Districts, MPOs, Local Governments Prepare and implement the Transportation Asset Management Plan Lead: IDOT Office of Planning and Programming Partner(s): IDOT Districts Work to coordinate transportation demand programs occurring throughout the state. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Districts, MPOs, Local Governments
		Focus on roadway system preservation by performing needed maintenance before segments/structures are in critical need of repair.		
		Focus on bridge repair and replacement by addressing the most critical needs and performing required maintenance.		
		Incorporate safety design elements in all new roadway plans and ensure design policies support freight-friendly design elements in roadway plans.		
		Promote safety through awareness programs and alerts regarding areas experiencing high crash rates.		
		Promote rail and highway safety by identifying and improving hazardous highway at-grade crossings.		
		Promote non-motorized safety by identifying and improving high accident locations for non-motorized users.		
		Explore various congestion management strategies for implementation within Illinois metropolitan areas.		

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GOAL: Resiliency				
Proactively assess, plan and invest in the state's transportation system to ensure that our infrastructure is prepared to sustain and recover from extreme events and other disruptions.				
Objective 1:	Improve safety on the Illinois transportation system by reducing the number of injuries/fatalities attributable to extreme events.	Engage in close coordination with operations stakeholders to reduce injuries and fatalities from extreme events.	Number of flood-flow deficient bridges and culverts	<ul style="list-style-type: none"> Enhance the roadway closure and detour information available to travelers during extreme events so as to increase traveler's ability to make informed decisions. Lead: IDOT Office of Communications Partners: IDOT Bureau of Operations, IDOT Districts Improve and enhance coordination between IDOT maintenance leads and traffic operations/incident management staff, and local and state emergency response professionals to identify any conclusions to be drawn from extreme event response activities. Lead: IDOT Bureau of Operations Partners: IDOT Districts , Local and State Emergency Response Professionals Hold annual multi-department and multi-agency coordination meetings to discuss emergency response methods and available tools and develop a plan to increase detour planning efforts and improve system outage communication efforts. Lead: IDOT Bureau of Operations, Bureau of Traffic Partners: IDOT Districts, IDOT Office of Communications, State Police, FEMA, Illinois Emergency Management Agency
		Increase use of preemptive road closures for extreme events.	Number of state route closures due to flooding	
		Address known and/or recurring roadway flooding areas.	Number and proportion of extreme events for which outreach/social media campaigns are undertaken	
Objective 2:	Minimize the frequency and duration of facility closures due to extreme events and other disruptions.	Improve capabilities for dealing with extreme events by enhancing real-time traffic operations capabilities.	Number of facility closures (or capacity limitations) attributable to extreme events	<ul style="list-style-type: none"> Coordinate with maintenance staff and consult the All Hazards vulnerability assessment to identify regular/recurring flood conditions on state highways and have design engineers utilize that information to act to improve flooding conditions through the capital improvement program. Lead: IDOT Bureau of Operations, IDOT Bureau of Design and Environment Partners: IDOT Districts, IDOT Office of Planning and Programming Develop contractor emergency response on-call contracts and agreements with local governments and surrounding states to provide response and recovery support during future events. Lead: IDOT Districts, IDOT Bureau of Operations Partners: IDOT Office of Planning and Programming, Illinois Emergency Management Agency Develop a severe storm index, which will allow IDOT to better understand the frequency of extreme weather events. Lead: IDOT Office of Planning and Programming Partners: IDOT Bureau of Design and Environment Enhance coordination with maintenance staff and emergency response staff to identify and implement strategies for reducing the impact of events, and develop and document a set of strategies for reducing the impact of events on the transportation system. Lead: IDOT Bureau of Operations Partners: IDOT Districts
		Enhance emergency response plans that consider strategic planning for events.	Number of response plans incorporating natural or man-made disasters	
		Continue active involvement in the critical infrastructure sub-committee of the Illinois Terrorism Taskforce.		
Objective 3:	Enhance transportation system redundancy.	Coordinate with appropriate state and local agencies to update emergency response plans	Number of major roadways with at-risk areas having pre-planned detour routes/closure plans and similar measures for other modes	<ul style="list-style-type: none"> Develop detour plans for at-risk areas on major state routes based on information from the All Hazards Transportation System Vulnerability Assessment. Lead: IDOT Bureau of Operations Partners: IDOT Districts, IDOT Bureau of Design and Environment Develop detour signage and digital information plans for at-risk areas on major state routes based on information from the All Hazards Transportation System Vulnerability Assessment. Lead: IDOT Bureau of Operations Partners: IDOT Districts, IDOT Bureau of Design and Environment
		Create a comprehensive system of detour routes and closure plans for major roadways	Total length of major roadways with at-risk areas having detour route signage (or plans for rapid reaction temporary signage).	
		Coordinate activities across agencies and modes to create comprehensive and consistent multimodal response plans.		
		Create a signing and digital information plan for detours.		
		Enhance the resiliency of new projects by considering system redundancy and emergency operation		

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Objective 4:	Identify current and future transportation system vulnerabilities to extreme events and climate change.	Better define system vulnerabilities from current extreme events	System-wide vulnerability analysis results that are based on the latest information	<ul style="list-style-type: none"> Identify actions needed to incorporate climate change into decision-making by coordinating with climate scientists and other state adaptation planning efforts to get an official set of projections for use in IDOT activities, educating staff on climate science basics and findings of vulnerability analysis, and getting broad agency-wide buy-in on recommended methodology and prioritization systems. Lead: IDOT Bureau of Design and Environment, IDOT Office of Planning and Programming Partners: IDOT Districts, IDOT Bureau of Operations Apply official climate projections for use by project-level staff. Lead: IDOT Bureau of Design and Environment Partners: IDOT Districts, IDOT Bureau of Operations In coordination with the state climatologist, develop educational materials on incorporating resiliency and climate change into efforts across IDOT. Lead: IDOT Office of Planning and Programming, IDOT Bureau of Design and Environment Partners: IDOT Districts, IDOT Bureau of Operations
		Prioritize next steps from the vulnerability analysis that need addressing		
		Expand the assessment to additional assets and stressor types		
		Develop prioritization scheme through internal coordination to enable action in addressing noted system vulnerabilities		
Objective 5:	Address transportation system vulnerabilities to extreme events and climate change within the transportation planning, design, and asset management processes	Address noted system vulnerabilities to extreme weather and climate change effects.	Number of and funding amount for resiliency-related projects	<ul style="list-style-type: none"> Commit IDOT resources to begin a broader roll-out of the concepts of resiliency to climate change and extreme weather by holding an informational event with representation from planning, design, operations, asset management and maintenance to define requirements, targets and required actions. Lead: IDOT Office of Planning and Programming Partners: IDOT Bureau of Design and Environment, IDOT Bureau of Operations, IDOT Districts Incorporate potential facility disruptions as a part of all ongoing maintenance and asset management, and facilitate activities and implement strategies to reduce future system impacts. Lead: IDOT Office of Planning and Programming, IDOT Bureau of Operations Partners: IDOT Districts Incorporate resiliency into ongoing practices and develop projects that address identified system vulnerabilities. Lead: IDOT Office of Planning and Programming Partners: IDOT Districts, IDOT Bureau of Design and Environment Coordinate with the project scoring system team to develop and implement a project scoring method and risk-based design approach to project design. Lead: IDOT Office of Planning and Programming Partners: IDOT Bureau of Design and Environment Coordinate with asset management team to incorporate climate change and extreme events into their activities. Lead: IDOT Office of Planning and Programming Partners: IDOT Districts
		Incorporate prioritization of resiliency needs into transportation planning process and project scoring systems.	Number/weight of resilience factors in the performance-based project selection tool	
		Develop a risk-based design approach for new projects, considering climate change projections and the need for adaptation.	Number of design projects using a risk-based design approach, considering climate change projections	
		Undertake detailed adaptation analysis on all high-vulnerability facilities.	Number of specific asset types of high-vulnerability assets for which a detailed adaptation analysis has been conducted	
		Incorporate system resiliency measures into project design efforts and the asset management system.	Number of extreme weather risks identified and addressed in the asset management plan	

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GOAL: Stewardship Safeguard existing funding and increase revenues to support system maintenance, modernization, and strategic growth of Illinois' transportation system.				
Objective 1:	Invest in improvements for airports, highways/streets, freight, ports, waterways and new traffic and transit technologies.	Complete current ongoing major infrastructure improvements.	Volume/number of projects completed	<ul style="list-style-type: none"> Deliver completed projects within the ongoing major infrastructure programs. Lead: IDOT Office of Highways Project Implementation Partner(s): MPOs, IDOT District Offices, IDOT Regional Offices, Transportation Agencies
		Identify needed capacity enhancements, capital improvements and new technology implementation.	Number of projects evaluated through performance based project selection tool	<ul style="list-style-type: none"> Identify new projects and/or partnerships with the private sector in order to foster the implementation of CAVs and other new technologies within the transportation industry. Lead: IDOT Office of Intermodal Project Implementation, IDOT Office of Highways Project Implementation Partner(s): MPOs, IDOT District Offices, IDOT Regional Offices, Transportation Agencies
		Identify new mega projects which will improve the existing transportation system and infrastructure and identify alternative funding opportunities.	Funds anticipated to be spent (programmed) on strategic capital and expansion plans addressing system preservation, capacity expansion and technology implementation	<ul style="list-style-type: none"> Create a long-term plan of major capacity enhancement, infrastructure expansion, and preservation projects, and the associated funding necessary to implement each (i.e., Expressway Vision). Lead: IDOT Office of Planning and Programming, IDOT Office of Highway Project Implementation Partner(s): MPOs, IDOT District Offices, IDOT Regional Offices, Transportation Agencies
		Identify potential projects or partnerships to address connected/autonomous vehicles (CAV) being introduced within both passenger and commercial/freight fleets.	Number of new projects and/or partnerships to address CAVs utilizing the transportation system	
Objective 2:	Ensure selection and prioritization decisions on projects is transparent and guided by sound data and performance-based decisions.	Develop performance-based project selection process and accompanying tools.	Volume/number of projects selected utilizing a performance-based project selection process	<ul style="list-style-type: none"> Develop web-based/app-based tools, dashboards and websites, and expand feedback opportunities in order to demonstrate to stakeholders and the public how projects advance through the development process and how funding is spent. Lead: IDOT Office of Communications Partner(s): IDOT Bureau of Communication Services
		Enhance asset management process and accompanying tools.	Pavement/infrastructure/vehicle condition	<ul style="list-style-type: none"> Enhance internal IDOT tracking tools in order to ensure projects are achieving timely schedules and progressively advancing through the development process. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Office of Highways Project Implementation
		Develop tools, dashboards, websites and feedback opportunities to demonstrate how projects progress and how funding is spent and the benefits of that funding.	Increased life span of pavements and bridges	<ul style="list-style-type: none"> Fully integrate the recently developed performance-based project selection tool into project programming and planning to track results (e.g., public-facing tools ranking projects). Lead: IDOT Office of Planning and Programming Partner(s): IDOT Bureau of Planning, IDOT Bureau of Programming, IDOT Bureau of Local Roads
		Ensure projects are meeting established schedules.	Number of tools developed to share project and funding information with the public	<ul style="list-style-type: none"> Expand and enhance asset management tools both for IDOT and local transportation partners. Lead: IDOT Office of Planning and Programming, IDOT Office of Intermodal Project Implementation Partner(s): MPOs, Transit Agencies
			Number of projects meeting established schedules	
			Federally required performance measures: <ul style="list-style-type: none"> Transit equipment - state of good repair Transit facilities – state of good repair Transit infrastructure – state of good repair Transit rolling stock – state of good repair Percentage of Interstate pavement in good condition Percentage of Interstate pavements in poor condition Percentage of non-Interstate National Highway System (NHS) pavements in good condition Percentage of non-interstate NHS pavements in Poor condition Percentage of NHS bridges classified as in good condition Percentage of NHS bridge classified as in poor condition 	

OBJECTIVE #	OBJECTIVE	RECOMMENDED ACTION/STRATEGY	PERFORMANCE MEASURE	IMPLEMENTATION
Objective 3:	Support innovative project delivery opportunities.	Support public-private partnerships (P3s) and private sector project financing initiatives.	Number of P3 projects in the state	<ul style="list-style-type: none"> Conduct outreach and education events for MPOs and local government officials on innovative project financing and delivery methods in order to increase knowledge and understanding of methods and benefits, and uses in other states. Lead: IDOT Office of Communications, IDOT Office of Planning and Programming Partner(s): MPOs, Local transportation officials Educate stakeholders and the public on innovative project financing and delivery methods in order to increase knowledge of methods and use in other states. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Bureau of Innovative Project Delivery, MPOs, Local government officials Study innovative project financing and delivery methods and their use within Illinois to advance various major projects. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Bureau of Innovative Project Delivery Review project processes for efficiency and effectiveness. Lead: IDOT Office of Fiscal Administration Partner(s): IDOT Bureau of Local Roads and Streets, IDOT Bureau of Design and Environment, Local Agencies
		Explore innovative project financing and delivery methods.	Number of events and publications, per year, providing information on innovative financing and delivery programs and financing-related opportunities	
		Work with industry to gain authority for Design-Build and Construction Manager/General Contractor through legislation.	Number of events focused on outreach to MPOs and local governments on innovative financing and delivery programs	
		Explore outreach and education for MPOs and local government officials on innovative project financing and delivery initiatives.	Time to implement projects	
		Explore processes within the department to make administration of projects more efficient yet effective.		
Objective 4:	Identify funding sources and leverage resources wisely to maximize the value of investments.	Identify opportunities to support non-highway funding program(s) for all multimodal transportation projects.	Number of successful joint procurements and estimated cost savings	<ul style="list-style-type: none"> Work with regional and local transportation agencies and other local transportation partners on joint tools to save time/money/effort. Lead: IDOT Office of Planning and Programming Partner(s): IDOT Bureau of Local Roads and Streets, Transportation Agencies Work with state and/or federal legislators to create dedicated non-highway funding program(s) for multimodal transportation projects. Lead: IDOT Office of Planning and Programming, IDOT Office of Legislative Affairs, IDOT Office of Intermodal Project Implementation Partner(s): Multimodal stakeholders, Transportation Agencies
		Develop time/money/effort saving platforms across transportation agencies.		
		Expand Economic Development Program (EDP) to better define projects that provide greater benefits for investments.		