

DRAFT Checklist: Roadway Adaptation Strategies
2023 Regional Climate Workshop

Your community / organization: _____

Approach	Strategy	Scale	Examples	Mark your top priorities! ✓	How could this be applied in your community/org? Share comments, feedback, and points of clarification
A. Design & Engineering	<input type="checkbox"/> A.1 Update roadway design standards to reflect latest climate data	Corridor / Systems	<ul style="list-style-type: none"> Climate-resilient design guidelines / "climate-ready" standards Updated design calculations (e.g. hydraulic capacity, flood frequency) 		
	<input type="checkbox"/> A.2 Model wear and asset lifespan to account for climate hazards	Corridor / Systems	<ul style="list-style-type: none"> Performance parameters for asset upgrades Anticipating climate and land use changes 		
	<input type="checkbox"/> A.3 Retrofit vulnerable sites to withstand extreme weather events	Site-level	<ul style="list-style-type: none"> Increased culvert capacity Enhanced drainage design Stream bank armoring Riprap to prevent bridge scour Rockfall barriers Elevation of roadways or bridges Climate-responsive materials (e.g. new pavement technologies) 		
B. Environmental	<input type="checkbox"/> B.1 Preserve wetlands and floodplains to improve stormwater retention	Site-level / Corridor	<ul style="list-style-type: none"> Right-of-way acquisitions for flood storage Wetlands management strategy 		
	<input type="checkbox"/> B.2 Enhance stormwater management via green infrastructure / Low Impact Development	Site-level / Corridor	<ul style="list-style-type: none"> Vegetative swales Street trees Bioretention areas Infiltration trenches Permeable pavement Stormwater planters and curb extensions 		
	<input type="checkbox"/> B.3 Update vegetation control practices	Site-level / Corridor	<ul style="list-style-type: none"> Management of invasive species Planting flood-tolerant species Increased trimming frequency 		

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C. Operations & Maintenance	<input type="checkbox"/> C.1 Optimize monitoring, maintenance, and replacement of bridges and culverts	Systems	<ul style="list-style-type: none"> • Minimizing repair backlogs • Documenting maintenance crew processes and best practices • Reassessing road repair schedules • Budgeting for priority infrastructure upgrades 		
	<input type="checkbox"/> C.2 Update seasonal maintenance programs in response to climate change	Systems	<ul style="list-style-type: none"> • Monitoring of bridges and culverts (including any beaver activity) • Removal of debris and sediment • De-icing of roadways (e.g. Green SnowPro Certification) 		
	<input type="checkbox"/> C.3 Establish flexible, responsive maintenance capabilities	Systems	<ul style="list-style-type: none"> • Stand-by contracts for extreme event response • Enhanced emergency communications systems • Inter-agency coordination and resource sharing • Stockpiling materials and equipment for extreme weather events 		
D. Outreach & Collaboration	<input type="checkbox"/> D.1 Support staff training and knowledge sharing about climate priorities	Systems	<ul style="list-style-type: none"> • Toolbox of climate resources • Staff training opportunities • Collaborative climate planning activities • Grants, funding, and technical assistance opportunities 		
	<input type="checkbox"/> D.2 Increase public awareness of climate-related risks to infrastructure	Systems	<ul style="list-style-type: none"> • Information dissemination (e.g. newsletters, user-friendly web resources) • Workshops with community stakeholders and affected property owners • Safety signage / safety devices at vulnerable crossings 		
	<input type="checkbox"/> D.3 Strengthen multi-sector partnerships and collaboration	Systems	<ul style="list-style-type: none"> • Enhanced communications and knowledge-sharing • Annual workshops; tailored working sessions • Coordination w/ State agencies • Joint development and maintenance of infrastructure • Policy alignment • Cost-sharing • Emergency management • Increasing transportation system redundancies 		

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E. Data Collection, Analysis, Planning, & Policy	<input type="checkbox"/> E.1 Regularly inventory vulnerable assets using up-to-date climate modeling	Systems	<ul style="list-style-type: none">• Documenting asset updates; monitoring changes to vulnerability status• Database maintenance• Updated mapping resources		
	<input type="checkbox"/> E.2 Develop climate priorities and incorporate into plans and policies	Systems	<ul style="list-style-type: none">• Long-Range Transportation Plans• Hazard Mitigation Plans• Capital Improvement Plans• Land development studies• Emergency response plans		
	<input type="checkbox"/> E.3 Integrate climate data to guide ongoing decision-making	Systems	<ul style="list-style-type: none">• Updated performance measures• Updated procurement criteria, RFPs• Budgeting considerations and cost-tracking (e.g. work order codes to address climate adaptation & emergency response)		