

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

## Chapter 2 . The 2040 Bikeway System

### Strategy 2.1 Provide elements that increase safety along corridors and at intersections

Actions	Lead	Support	Implementation Timeframe
2.1.a Promote traffic signal design and operation to allow bicyclists to make all movements through intersections in a timely fashion without requiring the detection of a motorized vehicle or use of a push-button. Implement appropriate bicycle detection systems whenever traffic signals are added or substantially upgraded.	Traffic Design	T-Planning Bike/Ped	On-going
2.1.b Work with responsible jurisdictions to employ bicycle detection systems where possible in conjunction with scheduled signal updates at the local, county and state level.	Traffic	Design	On-going
2.1.c Target opportunities to include bicycle detection in conjunction with accessibility improvements identified in the Americans with Disabilities Act Hennepin County Program Access and Transition Plan for County Highway Rights of Way (board adoption pending).	Traffic Design	Bike/Ped	On-going
2.1.d <b>Investigate other agencies' implementation and best practices for lighting of 24-hour trails.</b>	TRPD - Design		Long
2.1.e Identify and inventory lighting along trails, priority bikeways, and trail-road crossings, and evaluate candidates for improved lighting. Install lighting along routes as prioritized by candidate evaluation and as supported by the greater community.	TRPD - Design HCW&T	Traffic (X-ings)	Long
2.1.f Investigate opportunities to integrate sustainably-powered lighting (i.e. solar), or artfully designed lighting along bikeways.	TRPD - Design	Bike/Ped	Long
2.1.g Evaluate demand and consider implementation of mileage markers along select regional trail corridors.	TRPD - Maintenance		Long
2.1.h Develop a methodology for identifying top problem intersections based on crash history, user input and geometric issues.	T-Planning Bike/Ped	Traffic	Short
2.1.i Install bicycle and pedestrian-level lighting along county road trails, cycletracks and sidewalks as part of trail construction or roadway reconstruction where appropriate.	Design		Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 2.2 Address network gaps and barriers.

Actions	Lead	Support	Implementation Timeframe
2.2.a Work with agency partners to identify and remove gaps in the 2040 bikeway system with the appropriate bikeway treatments.	T-Planning Bike/Ped <b>TRPD – Planning</b>	Design Traffic <b>TRPD – Strategic Initiatives</b>	On-going
2.2.b Integrate gap closures in to city, county, and state reconstruction projects when they are initiated.	T-Planning Bike/Ped <b>TRPD – Planning</b>		On-going

Strategy 2.3 Plan and designate an enhanced bicycle network composed of high comfort bikeways that provide physical separation from motor vehicles (e.g., protected bike lanes, cycle tracks, off-street trails, and other innovative designs).

Actions	Lead	Support	Implementation Timeframe
2.3.a Collaborate with local stakeholders to develop an enhanced system overlay to the county bikeway system that will provide a higher level of comfort as an appendix to this plan by the end of 2015.	T-Planning Bike/Ped TRPD - Planning		Short
2.3.b Implement the enhanced bikeway system, and include a progress report on implementation within the annual tracking of the plan implementation.	T-Planning Bike/Ped TRPD - Planning		Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 2.4 Work with partners to develop and implement support facilities to make bicycling a transportation mode of choice.

Actions	Lead	Support	Implementation Timeframe
2.4.a Collaborate with partners to fund and implement facilities that support bicycling including restrooms, showers, water fountains, repair stations, and resting areas.	PS Bike/Ped TRPD - Planning/Design		Medium
2.4.b Identify and prioritize locations where facilities are needed based on guidance and user feedback via an online or 311-type system.	PS TRPD - Planning/Design	Bike/Ped	Medium
2.4.c Work with partners to provide convenient, accessible, and secure bicycle parking, addressing location visibility and lighting.	PS HCW&T TRPD - Planning/Design	Bike/Ped	Short
2.4.d Work with partners to develop a downtown Minneapolis bicycle transportation center.	PS Bike/Ped		Short
2.4.e <b>Follow Hennepin County's Bicycle Parking Standards (appendix F) for encouraging provision of bicycling supportive facilities at county/park district properties and within the public right-of-way.</b>	PS Bike/Ped TRPD - Planning/Design	Bike/Ped	Short
2.4.f Develop and regularly update a map of county and Three Rivers Park District bicycle parking facilities, including location and type.	Bike/Ped PS <b>TRPD – GIS/Marketing and Communication</b>	T-Planning	Short
2.4.g Continue to inventory bicycle parking provided by the county and park district, and evaluate where there is additional need or opportunities to invite more people to bicycle by increasing available parking, using the parking requirements from the parking standards as a baseline.	PS <b>TRPD – GIS/Planning/Design</b>	Bike/Ped	Medium
2.4.h Support educational programs to encourage local business owners to purchase and install bicycle parking in visible, accessible locations near their entrances.	HSPHD <b>TRPD – Strategic Initiatives/Recreation and Education</b>	Bike/Ped	Long
2.4.i Ensure bicycle parking is considered when Housing, Community Works and Transit department or Metro Transit are planning major transit improvements, changes, and expansion.	HCW&T	Bike/Ped T-Planning HCRRA	Short
2.4.j Incorporate Hennepin County Bicycle Parking Standards (appendix F) in to the application and ranking process for county-funded projects (such as TOD grants).	HCW&T	Bike/Ped T-Planning	Short
2.4.k Develop support facilities guidelines for the regional trail system.	Bike/Ped T-Planning <b>TRPD – Planning</b>		Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 2.5 Work with transit partners early in the planning phase of corridor and station area planning to incorporate bicycle supportive facilities at key transit locations.

Actions	Lead	Support	Implementation Timeframe
2.5.a Establish a communication protocol with key transit provider staff so county staff is aware of potential projects and can suggest ways to incorporate bicycle provisions in transit projects at the appropriate phase of project planning.	HCW&T HCRRA	Bike/Ped	Short
2.5.b Provide guidance and resources for evaluating appropriateness of, and installing, bicycle repair stations and short/long-term bicycle storage options at major transit hubs.	Bike/Ped	HCW&T HCRRA	Short

Strategy 2.6 Work with major transit providers and local communities to provide direct bicycle connections to transit stops and stations, and increase secure bicycle parking and storage to meet demand.

Actions	Lead	Support	Implementation Timeframe
2.6.a Partner with transit agencies to identify transit/bicycle usage patterns (such as bike boardings, or bike parking use) to prioritize bicycle improvements that increase access to transit.	HCW&T <b>TRPD – Strategic</b> Initiatives/Planning	Bike/Ped HCRRA	Short
2.6.b Consider prioritizing areas for bicycle improvements based on the percentage of lower income residents within a certain distance of the transit stop.	Bike/Ped <b>TRPD –</b> Planning/Design	HCW&T	Short
2.6.c Include bikeway planning for major transit stations. Transitway and station area planning efforts should address bikeway system connections and support facilities.	HCW&T HCRRA <b>TRPD –</b> Planning/Design	Bike/Ped HCP T-Planning	Short
2.6.d Provide county funding eligibility for bikeway system connections and support facilities for major transit stations.	PW Admin Bike/Ped T-Planning	HCW&T	Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 2.7 Support local bike sharing program(s).

Actions	Lead	Support	Implementation Timeframe
2.7.a Support local bike sharing program(s) in their effort to expand the bike sharing network and cater to the needs of suburban users.	HCW&T	Bike/Ped	Long
2.7.b Continue to support bike sharing at county buildings, public rights-of-way, and encourage the expansion of bike sharing to include more stations at Three Rivers Park District regional parks and along regional trails.	Bike/Ped PS	HCW&T LAG	Medium

Strategy 2.8 Collaborate with partners on planning, design, and funding for bicycle infrastructure that helps to complete, or complement the county bikeway system.

Actions	Lead	Support	Implementation Timeframe
2.8.a Develop a full complete streets design manual for the county.	Bike/Ped	T-Planning Design HCW&T	Short
2.8.b Work closely with local agencies to educate and encourage staff to use the county design toolkit in development of Hennepin County bikeway system improvements.	T-Planning Bike/Ped	Design HCW&T	Short
2.8.c Provide consistent bikeway type (on- or off-street) when connecting with other locally-developed bicycle networks.	T-Planning Bike/Ped <b>TRPD – Planning</b>	Design HCW&T	On-going
2.8.d Cultivate consistent communication among agencies and staff to ensure collaboration happens early and often in the planning, design, development, and funding processes.	T-Planning Bike/Ped <b>TRPD – Planning/Design</b>	TRPD - Strategic Initiatives	On-going
2.8.e Work closely with staff and local, regional and state agencies to encourage cross-county collaboration on facility location, design, implementation and wayfinding to better link regional / seven county metro area bicycling network.	Bike/Ped <b>TRPD – Planning/Design</b>	T-Planning PS HCW&T TRPD - Strategic Initiatives; Marketing and Comm.	On-going
2.8.f Support efforts to provide greater flexibility in the application of state aid bikeway standards.	PW Admin T-Planning Bike/Ped	Design	Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 2.9 Secure necessary right-of-way to accommodate future expansion of the bicycle system.

Actions	Lead	Support	Implementation Timeframe
2.9.a Reference the design toolbox typical sections during preliminary plat and site plan reviews to ensure right-of-way is preserved for future bikeways. Pursue future refinements of the design toolbox for incorporation into a proposed complete streets design manual to assist in development reviews.	T-Planning TRPD - Planning	Bike/Ped Design LAG HCRRA	On-going
2.9.b Work with local governments interested in retrofitting roadways (road reconfigurations, repaving, etc.) to investigate opportunities to add or improve bikeways, and connect them to the county system.	T-Planning <b>TRPD –</b> Planning/Design	Bike/Ped Traffic	On-going
2.9.c Investigate and use new traffic analysis methodologies that better incorporate all road users when determining bikeway locations and types.	T-Planning Bike/Ped TRPD - Planning		Short

Strategy 2.10 Continue refining the plan and implement the system of interconnected on- and off-street bikeways that link all significant destinations within the county.

Actions	Lead	Support	Implementation Timeframe
2.10.a Continue to engage underserved and underrepresented communities in the bicycle system planning process in order to better understand barriers, bikeway needs, and desires relative to bicycle usage and ensure that all populations receive benefits from bicycling investments.	HSPHD HCW&T TRPD - Planning	T-Planning Bike/Ped	On-going
2.10.b Revise the entire bikeway system plan map periodically, as development and land use densities change throughout the county.	T-Planning Bike/Ped TRPD - Planning		On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

## Chapter 3. Programs

### Strategy 3.1 Promote the recognition of the county’s bicycle-friendly nature.

Actions	Lead	Support	Implementation Timeframe
3.1.a Pursue having the county designated as a League of American Bicyclist (LAB) Bicycle Friendly Business and work with economic development departments, and business associations to establish bicycle friendly businesses/bicycle friendly districts.	Bike/Ped TRPD – Strategic Initiates	Public Affairs TRPD – Marketing and Communications	Short
3.1.b Continue to support local communities in seeking LAB Bicycle Friendly Communities designation.	Bike/Ped TRPD – Planning		On-going
3.1.c Consider ways to promote the county's bicycle-friendly nature through advertising collateral (e.g., highlight on maps, kiosks, brochures, business windows) and public service announcements.	Public Affairs TRPD – Marketing and Communication	Bike/Ped	On-going
3.1.d Actively participate in the Pedal MN campaign, and highlight bike-friendly destinations within the county.	Bike/Ped TRPD – Recreation and Education	TRPD – Communications	Medium

### Strategy 3.2 Educate the public about bicycling as a sustainable mode of transportation that saves money, promotes healthy lifestyles, and reduces greenhouse gases and other pollution emitted into the air.

Actions	Lead	Support	Implementation Timeframe
3.2.a Develop promotional materials and campaigns to educate the public about transportation choices (e.g., Arlington County Car Free Diet).	Public Affairs DES TRPD – Marketing and Communication	Bike/Ped TRPD – Strategic Initiates	Long
3.2.b Maintain and expand partnerships with health practitioners, community, business, and governmental stakeholders such as Active Living Hennepin County to expand interest in and access to bicycling.	HSPHD HCP TRPD – Strategic Initiates	Bike/Ped SPR	On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.3 Support efforts to make bicycling a more attractive option for those populations underrepresented on bicycles.

Actions	Lead	Support	Implementation Timeframe
3.3.a Reach out to populations that are not currently riding to find out why they aren't riding and what would encourage more riding through surveys, focus groups, listening sessions, etc. and, if appropriate based on the findings, implement programs to address these findings.	Bike/Ped TRPD – Strategic Initiates	T-Planning TRPD - Planning	Long
3.3.b Review best practices for promotion of bicycling to underrepresented minorities (e.g., the Biking Public Project in NYC, and Bike Walk Move).	Bike/Ped TRPD - Strategic Initiates	TRPD – Marketing and Communication	Long
3.3.c Monitor the use of emerging technologies that may provide opportunities to extend the reach of bicycling trips and expand access to those needing physical assistance while bicycling.	HSPHD TRPD - Strategic Initiates	Bike/Ped	Long

Strategy 3.4 Work with partners to develop activities and events for potential bicyclists on topics like bicycling in everyday/professional clothes, bicycle maintenance, hauling cargo, and other barriers that could be overcome by rider knowledge.

Actions	Lead	Support	Implementation Timeframe
3.4.a Develop new (county) and enhance existing (park district) educational materials for encouragement/training events such as open streets, bike rodeos, or bike week.	Bike/Ped TRPD – Marketing and Communication	BAC TRPD – Recreation/public Safety	Medium
3.4.b Improve internal efforts to inform and increase knowledge about bicycling as a viable transportation option for county staff.	Healthworks Bike/Ped TRPD – Marketing and Communication	T-Planning TRPD – Recreation/public Safety	Short
3.4.c Develop an employee bicycle community and develop informational materials on how to bike to work at the county and include bike commuting information at new employee orientation.	Bike/Ped Healthworks	HR	Short



# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.5 Support and encourage the expansion of Safe Routes to School (SRTS) programs, including additional funding.

Actions	Lead	Support	Implementation Timeframe
3.5.a Inventory and identify where there are missing local trail connections between schools and the regional trail system. Work with partners to fund, design, prioritize, and implement missing connections.	T-Planning HCP <b>TRPD – Planning</b>	Bike/Ped BAC (field review) TRPD - GIS	Short
3.5.b Develop standard protocol to contact area schools for input and feedback before county road improvement projects.	Design HCW&T	Bike/Ped T-Planning Oper	Short
3.5.c Integrate youth-targeted programming with community education and encouragement campaigns.	Public Affairs <b>TRPD – Marketing and Communication</b>	<b>TRPD –</b> Recreation/Public Safety	Long
3.5.d Support the state SRTS curriculum in Hennepin County partner schools.	Bike/Ped Public Affairs	T-Planning	Long

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.6 Support programs and efforts to encourage employers to increase understanding and awareness that bicycling is a viable commuting option.

Actions	Lead	Support	Implementation Timeframe
3.6.a	HCP TRPD – Marketing and Communication	Bike/Ped BAC TRPD – Strategic Initiates	Medium
3.6.b	Public Affairs Bike/Ped HCP TRPD – Marketing and Communication	BAC TRPD – Strategic Initiates	Medium
3.6.c	Healthworks Bike/Ped TRPD – Strategic Initiates		Short
3.6.d	Healthworks	Bike/Ped	Short
3.6.e	Public Affairs	Bike/Ped HSPHD	Short
3.6.f	Healthworks Bike/Ped	IT	Short
3.6.g			Medium
3.6.h			On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.7 Establish safety evaluation programs and processes to address user conflicts.

Actions	Lead	Support	Implementation Timeframe
3.7.a Routinely perform safety reviews at high-crash rate locations or locations where known safety concerns are identified (including close-call locations where documented).	T-Planning TRPD – Design	Bike/Ped Traffic	Short
3.7.b Track bicycle crashes by bikeway type and crossing type. Follow-up with appropriate staff to determine corrective actions for high crash rate locations.	T-Planning TRPD – Public Safety	Bike/Ped Traffic TRPD – Design	Short
3.7.c Work to develop a methodology that would calculate bicycle-related crash rates. These rates would allow the identification of statistically significant problem areas and comparisons to similar locations throughout the county.	T-Planning TRPD – Public Safety	Bike/Ped Traffic TRPD – Design	Long

Strategy 3.8 Provide a systematic and consolidated means for residents and visitors to identify areas of concern or report issues (i.e., bicycle crash “close calls”).

Actions	Lead	Support	Implementation Timeframe
3.8.a Explore methodologies for users of the system to report areas of concern or close calls (e.g., Minneapolis 311, SeeClickFix, Bike Crash App).	Bike/Ped T-Planning TRPD – Marketing and Communication	Sheriff Oper. Traffic TRPD – Design/IT	Short
3.8.b Work with local law enforcement and other partners to inventory previous and ongoing conflict points.	Bike/Ped T-Planning TRPD – Design/Public Safety	Sheriff	Short
3.8.c Develop a system of identifying and prioritizing conflict reduction project areas and implementing programming and infrastructure improvements.	Bike/Ped T-Planning TRPD – Design	Traffic	Short
3.8.d Based on staff review and analysis of information on system performance, the county and park district further review areas with consistent concerns, and appropriately address locations in a timely fashion.	Bike/Ped T-Planning TRPD – Design	Traffic	Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.9 Promote and participate in bicycle education programs through partnerships with community organizations and businesses.

Actions	Lead	Support	Implementation Timeframe
3.9.a Document existing educational efforts by the county/park district and identify what to enhance or expand with community partners.	Bike/Ped TRPD – Strategic Initiatives	HSPHD TRPD – Recreation	Long
3.9.b Continue to administer and work with community partners such as cities and other organizations to develop additional educational programs (e.g., Three Rivers Park District Share the Trail Program) aimed at educating the public about safe riding and how to navigate the variety of bikeway types.	HSPHD Bike/Ped HCP TRPD – Strategic Initiatives	BAC Public Affairs TRPD – Recreation/Public Safety	Long
3.9.c Develop or use/modify existing educational, encouragement, safety, etc. materials that county and/or park district staff can take to various community events, businesses, schools, and agency sponsored events.	Public Affairs Bike/Ped TRPD – Marketing and Communications	HSPHD BAC TRPD – Strategic Initiatives	Medium
3.9.d Incorporate information on safe bicycle practices into various county and park district publications (bike map, county website, etc.).	Public Affairs TRPD – Marketing and Communications	Bike/Ped T-Planning	Short
3.9.e Establish funding streams and partnerships to launch a cohesive bicycle and driver educational marketing campaign.	Bike/Ped TRPD - Communications	HSPHD Public Affairs	Long
3.9.f Continue offering bicycling and driver safety courses to county employees with a bicycle education module.	Safety	Bike/Ped T-Planning	Medium
3.9.g Develop employee-specific safety training materials and modules on bike safety for bicyclists and drivers.	Safety Healthworks	Bike/Ped T-Planning	Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

**Strategy 3.10 Work with partners to expand driver’s education and coursework for motorists, bicyclists and youth about the rights and responsibilities of all road users.**

Actions	Lead	Support	Implementation Timeframe
3.10.a Partner with other organizations working on driver’s education programs on the inclusion of information on multiple modes and its inclusion in the examination process.	Safety Bike / Ped	Sheriff	Long
3.10.b Incorporate bicycle safety information in the county’s defensive driving and large vehicle education programs.	Safety	Sheriff Bike / Ped	Short
3.10.c For county drivers — alert employees to habits that lead to distracted driving, and enforce prohibitions of these types of actions.	Safety	Sheriff Bike / Ped	Short
3.10.d Partner with other organizations to expand the availability of bicycle safety training (e.g. bicycle rodeos, Safe Routes to School, League of American Bicyclists Road I, Road II, Kids I, Kids II etc.)	Bike/Ped TRPD - Public Safety	Sheriff	Short

Strategy 3.11 Work with partners such as public safety officials, cities, and school districts to promote safe bicycling, driving, and walking practices and encourage enforcement by the presiding agency.

Actions	Lead	Support	Implementation Timeframe
3.11.a Continue to evaluate current enforcement practices at the state, county, and park district levels relative to bicycle safety and encourage enhancements to enforcement programs as necessary.	Bike/Ped TRPD – Public Safety	Sheriff	Short
3.11.b Reach out to the Hennepin County Sheriff’s Office and other local public safety partners and establish regular meetings to discuss road and bikeway safety.	Bike/Ped TRPD – Public Safety	Sheriff	Short
3.11.c Work with the Sheriff’s Office and local public safety officials to improve protocol for recording and reporting crash data including improving the accuracy of recording and categorization of bicycle crash information.	Bike/Ped TRPD – Public Safety	Sheriff	Medium
3.11.d Work with the Hennepin County Sheriff’s Office and local public safety officials to educate officers on bicycle safety.	Bike/Ped	Sheriff	Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 3.12 Continue to collaborate with local agencies and other partners to address wayfinding in a comprehensive, coordinated way.

Actions	Lead	Support	Implementation Timeframe
3.12.a Review existing wayfinding guidance, policies, and programs and consider adapting for a county-wide wayfinding guide.	Bike/Ped <b>TRPD – Design</b>	Traffic T-Planning <b>TRPD – Marketing and Communication</b>	Long
3.12.b Investigate opportunities to integrate additional informational/wayfinding signage along bikeways.	Bike/Ped <b>TRPD – Marketing and Communication</b>	Traffic T-Planning	Long

Strategy 3.13 Provide trip planning resources in multiple formats, including print and digital.

Actions	Lead	Support	Implementation Timeframe
3.13.a The county and park district will coordinate and collaborate on the development of all county and park district bicycling system maps to ensure the most accurate information is included on the maps.	Public Affairs <b>TRPD – Marketing and Communication</b>	Bike/Ped T-Planning <b>TRPD – Planning/GIS</b>	Short
3.13.b Continue to update and publish the Hennepin County Bicycle System Map on a periodic basis.	T-Planning <b>TRPD – Marketing and Communication</b>	Public Affairs Bike/Ped BAC	On-going
3.13.c Continue to update and publish the Three Rivers Park District Regional Trail Map on a periodic basis.	T-Planning <b>TRPD – Marketing and Communication</b>	<b>TRPD – Planning/GIS</b>	On-going
3.13.d Evaluate need and, if appropriate, incorporate universal symbols that can be understood by non-English speaking users on maps.	Public Affairs <b>TRPD – Marketing and Communication</b>	T-Planning Bike/Ped <b>TRPD – Strategic Initiatives</b>	Long
3.13.e Seek opportunities to partner with transit service providers to develop trip planning capabilities that integrate bicycle and transit modes in the same trip, including information about on-board bicycle capacity within high use transit corridors.	Bike/Ped <b>TRPD – Marketing and Communication</b>	HCWT	Medium
3.13.f Use and promote online resources to assist in system wide trip planning. Work with web tools, including Cyclopath, Google and Metro Transit Trip Planner, so that bikeways are accurately reflected online. Promote the use of these web tools to county residents and visitors.	Bike/Ped <b>TRPD – Marketing and Communication</b>		Medium
3.13.g Develop an online map of the Hennepin County bikeway system. Investigate a GIS application that would allow users to view various layers of information.	County GIS	Bike / Ped T-Planning	Medium
3.13.h Create an editable composite map of the individual city bikeways for reference purposes.	County GIS	Bike / Ped T-Planning	Medium

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

## Chapter 4. Policy Framework

Strategy 4.1 Support and encourage interdepartmental coordination and develop actions and programs that complement other county initiatives and planning efforts.

Actions	Lead	Support	Implementation Timeframe
4.1.a Enhance coordination between all departments of Public Works to further county-wide initiatives such as the county's complete streets policy.	SPR PW	Transportation, HCW&T DES, PS, PW Admin	On-going
4.1.b Increase communication and collaboration between the health and public works lines of business.	HSPHD		On-going

Strategy 4.2 Increase internal and external support so that bikeways are eligible expenses for the lifecycle of transportation funding, including planning, design, development, operations, and maintenance.

Actions	Lead	Support	Implementation Timeframe
4.2.a Ensure complete streets checklist process is employed for new transportation construction. Post all completed checklists to sharepoint and ensure that all departments and interested groups are consulted early in the scoping and planning process of all road projects.	Design <b>TRPD – Planning,</b> Design, and IT Division	Design T-Planning HCWT Bike / Ped Strategic Initiatives/Planning	On-going
4.2.b Create a new complete streets checklist for preservation projects (mill and overlay paving projects). Post all completed checklists to sharepoint and ensure that all departments and interested groups are consulted early in the scoping and planning process of all road projects.	T-Planning Bike/Ped	Design Oper	Short
4.2.c Evaluate current capital improvement projects funding streams for the potential to add bicycle facility criteria, points and funding.	Bike/Ped T-Planning	PW	On-going
4.2.d Monitor and advocate for bikeway planning, design, construction, operations, maintenance, and related programming to be eligible grant/funding projects of external funding sources and programs (e.g. Metropolitan Council, MnDOT, MnDNR, State of Minnesota, federal transportation bill, etc.).	PW Admin SPR <b>TRPD – Planning and</b> Design		On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 4.3 Support and encourage coordination among Hennepin County and partner agencies and municipalities. Develop actions and programs that complement aligned efforts at the state, region, or municipal level.

Actions	Lead	Support	Implementation Timeframe
4.3.a Encourage local land use guidance that maximizes support for bicycling.	T-Planning TRPD - Planning	HCW&T	On-going
4.3.b Coordinate bicycle planning and implementation with state and regional efforts. Ensure coordination is done early in the planning process for all projects.	T-Planning Bike/Ped TRPD - Planning	PW	On-going
4.3.c Consider developing a program to celebrate/recognize local cities that make exceptional progress in improving bicycling conditions. In conjunction, explore the possibility of establishing an annual 'bike summit' meeting in which awards could be presented and participating agencies can share upcoming biking-related plans/projects and discuss coordination opportunities, share expertise, etc.	Bike/Ped <b>TRPD – Planning</b>	TRPD - Design	Short



# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

## Chapter 5. Implementation

Strategy 5.1 Prioritize projects to implement. In order to efficiently and strategically invest in the bikeway system, the county must develop a prioritization process to identify a priority projects list for implementation.

Actions	Lead	Support	Implementation Timeframe
5.1.a Re-evaluate the prioritization process every five years to ensure other county and park district goals are being met.	Bike/Ped T-Planning TRPD – Planning/Design	Design Traffic HCW&T	Long
5.1.b Annually update the priority projects list for implementation.	T-Planning Bike/Ped TRPD – Planning/Design	Design Traffic HCW&T	Medium

Strategy 5.2 Develop and maintain a Bikeway Design Toolkit including a matrix of bikeway options, technical design sheets and typical sections for both new construction and retrofit projects, based on local and national research and best practices. Consider the development of guidelines in conjunction with other modal guidelines, forming the basis for the future complete streets design manual.

Actions	Lead	Support	Implementation Timeframe
5.2.a Use the bikeway design toolkit and employ local, state, national, and international guidance when appropriate.	Design TRPD – <b>Design</b>	Bike/Ped T-Planning Traffic TRPD – <b>Planning</b>	On-going
5.2.b Routinely review and update the content and guidance of the bikeway design toolkit to maintain consistency with the latest best practices, applicable standards, and innovative approaches.	Bike/Ped T-Planning TRPD – <b>Design</b>	Traffic Design TRPD – <b>Planning</b>	Medium
5.2.c Consider the development of guidelines in conjunction with other modal guidelines, forming the basis for the future complete streets design manual.	Bike/Ped TRPD – <b>Design</b>	T-Planning Design TRPD –	Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.3 Provide for continuing education for county and park district staff about new bikeway types, planning, design and bicycle-related issues that may arise.

Actions	Lead	Support	Implementation Timeframe
5.3.a Encourage involvement in workshops developed and led by the county, park district or others such as the Minnesota Department of Transportation (MnDOT) and the Federal Highway Administration (FHWA).	Bike/Ped TRPD – Design	Transportation TRPD – Planning	Short
5.3.b Encourage involvement in webinars to increase staff knowledge on various topics related to bicycling planning, design, construction, operations, maintenance, and laws.	Bike/Ped TRPD – Design	Transportation TRPD – Planning	Short
5.3.c Support staff in attending relevant conferences/seminars (e.g., Pro-Walk/Pro-Bike, Transportation Research Board, Association of Pedestrian and Bicycle Professionals Professional Development Seminars).	Bike/Ped TRPD – Design	TRPD – Planning	Medium

Strategy 5.4 Monitor and consider emerging transportation planning, design, and implementation practices.

Actions	Lead	Support	Implementation Timeframe
5.4.a Monitor and consider emerging traffic analysis practices that better incorporate multimodal demand in countywide analysis.	T-Planning	Bike/Ped Traffic	Medium
5.4.b Survey and select innovative analysis tools to assess a streets ability to move people rather than just motor vehicles.	T-Planning	Bike/Ped Traffic	Short
5.4.c Work with other agencies to improve travel demand modeling to include bicycle users.	T-Planning	Bike/Ped Traffic	Short
5.4.d Investigate methods of markings removal and experimentation and develop recommendations to allow for Hennepin County to pilot innovative striping plans and tweak them when needed while not waiting for overlays for experimentation.	Traffic	Bike/Ped T-Planning	Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.5 The county and park district should budget for ongoing, consistent sources of revenue to complete planned network routes and to close gaps in the network.

Actions	Lead	Support	Implementation Timeframe
5.5.a Refine and continue to utilize the county bicycle funding programs.	Bike/Ped T-Planning		On-going
5.5.b Consider creation of a Park District land acquisition fund dedicated to regional trail land acquisition needs.	TRPD – Finance/Planning		
5.5.c Consider developing a comprehensive investment approach to fund infrastructure improvements and programs associated with education, enforcement, and maintenance. This approach would include information on typical costs, funding streams, and timing of investment.	Bike/Ped T-Planning		Medium
5.5.d Support efforts to reserve federal funding for bicycle and pedestrian improvements.	Bike/Ped T-Planning		Short

Strategy 5.6 Leverage other projects to include bikeways or take advantage of partnership opportunities outside of the normal solicitation schedule, and consider budgeting for unplanned opportunities.

Actions	Lead	Support	Implementation Timeframe
5.6.a Continue to fund the community enhancement program at its current level or higher for purposes of taking advantage of partnering opportunities to implement and enhance the regional trail system.	TRPD – Planning T-Planning	TRPD – Design/Finance	Medium
5.6.b Create a county opportunity fund for unplanned, yet strategically important projects.	Bike/Ped		Medium

Strategy 5.7 Obtain funding for bicycle education and enforcement programs.

Actions	Lead	Support	Implementation Timeframe
5.7.a Continue applying for Statewide Health Improvement Program (SHIP) or other funding opportunities for educational programs.	HSPHD HCP TRPD – Strategic Initiatives	Bike/Ped	Medium
5.7.b Work with partners for funding education and encouragement programs.	Bike/Ped	Public Affairs	On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.8 Explore the creation of a regional trail authority (similar to a watershed district) for a consistent funding stream for longer term maintenance and operations.

Actions	Lead	Support	Implementation Timeframe
5.8.a Research the use of a regional trail authority or similar organizations in other areas to better understand the applicability to Hennepin County, Three Rivers Park District, and partners.	Bike/Ped T-Planning <b>TRPD – Planning</b>	<b>TRPD – Strategic</b> Initiatives	Long
5.8.b Work collaboratively with other bikeway providers to understand long-term bikeway maintenance and operation costs, opportunities, and challenges of the entire region.	Bike/Ped T-Planning		Long

Strategy 5.9 Continue county routine maintenance and pavement management of the on-street bicycle system tied to overall roadway maintenance plans.

Actions	Lead	Support	Implementation Timeframe
5.9.a Evaluate current maintenance practices to identify opportunities to modify the approach to better address bicycle maintenance as part of the existing roadway maintenance program where on-street bikeways are present, such as pre-treating the road before storms to ease removal of snow and ice from curb to curb.	Oper	Bike/Ped T-Planning Traffic	On-going
5.9.b Investigate best practices of bikeway-specific snow removal techniques in other winter communities.	Bike / Ped T-Planning	Oper	Medium
5.9.c As new bikeway types are added to the system, the county and park district will maintain, or partner with the appropriate organizations to maintain, elements such as physical barriers, striping, and bicycle signal timing.	Traffic Design	Bike/Ped T-Planning Oper	Long
5.9.d Report and track the condition of bikeway-related pavement markings and signage.	Oper	Bike/Ped	On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.10 Explore partnering with local cities to improve routine maintenance and pavement management practices on Hennepin County off-street bikeways.

Actions	Lead	Support	Implementation Timeframe
5.10.a Conduct a feasibility study increasing the county's involvement in routine maintenance pavement management practices of off-street bikeways.	Bike/Ped T-Planning	Oper <b>TRPD – Design</b>	Short
5.10.b Create an electronic map and database of all maintenance agreements and identify locations with possible maintenance responsibility gaps in the system.	Bike/Ped T-Planning	Oper <b>TRPD – Design</b>	Medium

Strategy 5.11 Establish and implement a policy for the closure and detour of on- and off-street bicycle bikeways that provides safe and direct alternatives when bikeways must be closed.

Actions	Lead	Support	Implementation Timeframe
5.11.a Develop work zone bicycle traffic maintenance guidance based upon best practices.	Design Const TRPD - Design	Traffic	Medium
5.11.b Design / acquire appropriate signage and other materials for easy set up and removal before and after construction.	Design Oper Const	Traffic	Medium
5.11.c Develop guidance for restoring bikeway pavement quality when it is affected by adjacent non-road construction activity (for example, by construction equipment and activity during the construction of a new apartment building or utility work).	Design Permits Const	Traffic	Medium
5.11.d Continue the process for effectively and efficiently informing the public about closures and detours (information line and on website).	Public Affairs TRPD - Marketing and Communication	Const Oper <b>TRPD – Design</b>	On-going

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.12 Maintain current programs and partnerships that provide routine maintenance (e.g., TRPD Adopt-a-Trail Program). Current, routine maintenance programs and partnerships should be maintained or enhanced.

Actions	Lead	Support	Implementation Timeframe
5.12.a Continue partnerships with MN Conservation Corp, Sentence to Serve, and similar programs to provide seasonal, response to storm, and special project maintenance assistance.	Public Safety	Oper	On-going
5.12.b Continue to oversee and permit special events along the regional trail system in a manner that protects the integrity of the regional trail corridor, minimizes the impact of the general public, and that recovers associated costs.	HCRRA TRPD – Operations		On-going
5.12.c Investigate and evaluate alternative funding sources and programs to assist with the long-term routine maintenance and operation costs of the regional trail system.	Bike/Ped T-Planning TRPD – Planning	TRPD – Maintenance	Medium
5.12.d Continue to investigate and evaluate opportunities to partner with local communities and other partners to assist with routine maintenance and operations.	Oper TRPD – Maintenance	Bike/Ped T-Planning	On-going
5.12.e Continue annual routine maintenance, operations, and funding of regional trail corridors.	TRPD – Maintenance		On-going
5.12.f Biannually review routine regional trail maintenance guidelines and update as necessary to best serve the public and maximize available resources.	TRPD – Maintenance		On-going

## Strategy 5.13 Continue Three Rivers Park District’s Pavement Management Program (PMP) for regional trail maintenance.

Actions	Lead	Support	Implementation Timeframe
5.13.a Continue the implementation and funding of the park district’s PMP.	TRPD – Design		On-going
5.13.b Investigate and evaluate alternative funding sources and programs to assist with the long-term pavement management maintenance costs of the regional trail system.	TRPD – Planning/Design		Short
5.13.c Investigate and evaluate opportunities to partner with local communities and other partners to assist with pavement maintenance funding and implementation.	TRPD – Planning/Design		Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.14 Investigate and consider a prioritized, phased snow removal policy for on- and off-street bikeways.

Actions	Lead	Support	Implementation Timeframe
5.14.a Work with cities to designate bicycle snow emergency routes and identify locations and types of bikeways that should be prioritized as part of snow removal.	Oper TRPD – Bike/Ped	Bike/Ped T-Planning	Long
5.14.b Study the best methods for snow removal on bikeways that are located within the county right-of-way.	T-Planning	Oper	Medium
5.14.c Continue and expand the park district pilot programs to determine best management practices, costs, and potential partners to providing winter maintenance.	Oper TRPD – Maintenance	Bike/Ped T-Planning	On-going

Strategy 5.15 Regularly evaluate the performance of new and existing bikeways to determine the effectiveness of designs and treatments.

Actions	Lead	Support	Implementation Timeframe
5.15.a Develop before and after studies when implementing innovative designs and experimental treatments, including a framework for routine evaluation of these treatments (consider participating in MnDOT or FHWA experimentation where relevant) that will improve understanding of how existing and/or traditional bikeways are performing to ensure treatments meet with intended use and safety performance.	T-Planning TRPD – Design	Bike/Ped	Long
5.15.b Maintain and annually update a bike plan dashboard that reports on the performance measures and describes progress on bikeways implementation.	T-Planning Bike/Ped TRPD – Design/Planning		Short
5.15.c Produce annual progress report on the combined implementation of the bicycle plan, pedestrian plan, and complete streets policy.	T-Planning Bike/Ped		Short

# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.16 Implement a system for collecting bicycle counts and measuring the share of trips that are taken by bicycle within the county.

Actions	Lead	Support	Implementation Timeframe
5.16.a Assess the level and quality of data currently collected and develop a recommendation for establishing a county bicycle counting program.	Bike/Ped TRPD – Research		Short
5.16.b Consider establishment of an automated bicycle counting system for both the on- and off-street system.	T-Planning Bike/Ped TRPD – Research		Short
5.16.c Integrate bicycle counts as part of the routine vehicular traffic count program where possible.	T-Planning TRPD – Research	Bike/Ped	Short
5.16.d Analyze and evaluate the change in ridership on a seasonal and yearly basis.	T-Planning TRPD – Research	Bike/Ped	Medium
5.16.e Report on ridership changes annually once the counting system is in place.	T-Planning TRPD – Research	Bike/Ped	Medium

Strategy 5.17 Continue to gather feedback from users and the general population on a regular basis.

Actions	Lead	Support	Implementation Timeframe
5.17.a Conduct outreach at key events and continue the use of on-line or intercept survey tools to get feedback about the overall bicycle system, specific projects/improvements, and user demographic composition, preferences, and behaviors.	Bike/Ped TRPD – Research	Public Affairs	Medium
5.17.b Consider various methods to gather on-line feedback (e.g., 311, website, social media).	Bike/Ped TRPD – Research	Public Affairs	Short
5.17.c Continue the Three Rivers Park District’s 5-Year Regional Trail Survey.	TRPD – Research		On-going



# 2040 Hennepin County Bicycle Transportation Plan Strategies and Actions

Strategy 5.18 Create a working group of advisors to monitor the implementation of the bike plan.

Actions	Lead	Support	Implementation Timeframe
5.18.a	Bike/Ped T-Planning <b>TRPD – Planning</b>		Medium
5.18.b	Bike/Ped T-Planning <b>TRPD – Planning</b>		Medium

Strategy 5.19 Develop/enhance strategies to house, maintain, and communicate important information and data on the bikeway system.

Actions	Lead	Support	Implementation Timeframe
5.19.a	T-Planning <b>TRPD –</b>	Bike/Ped TRPD - GIS	On-going
5.19.b	T-Planning <b>TRPD – Planning</b>	Bike/Ped TRPD - GIS	Short
5.19.c	T-Planning <b>TRPD – Planning</b>	Bike/Ped TRPD - GIS	Short
5.19.d	T-Planning Bike/Ped <b>TRPD – Planning</b>	Design Oper HCWT <b>TRPD – GIS</b>	Short
5.19.e	T-Planning Bike/Ped <b>TRPD – Planning</b>	Design Oper HCWT <b>TRPD – GIS</b>	Short
5.19.e	T-Planning Bike/Ped <b>TRPD – Planning</b>	Design Oper HCWT <b>TRPD – GIS</b>	Short