Twin Cities Regional Bicycle Barriers Study

TAC Planning July 13, 2017



Regional Bicycle Transportation Network Vision



- V Tier 1 Alignments
- Tier 2 Alignments

RBTN Corridors (Alignments Undefined)

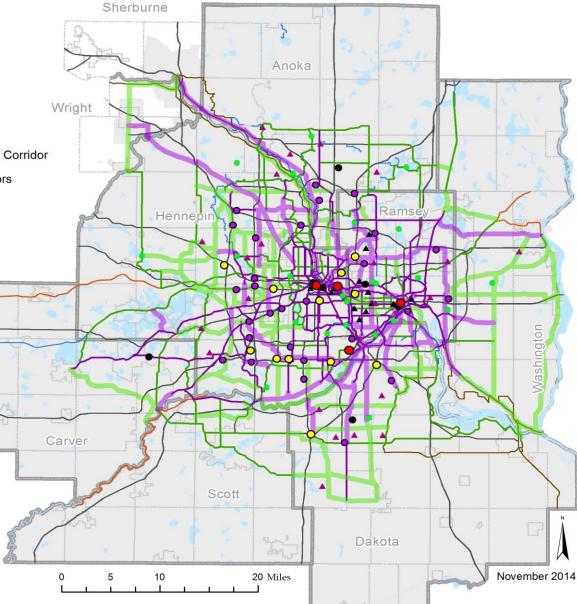
- Tier 1 Priority Regional Bicycle Transportation Corridor
- Tier 2 Regional Bicycle Transportation Corridors

Other Trail Systems

- Regional Trails (Regional Parks Policy Plan)
- Mississippi River Trail (US Route 45)
 - State Trails (DNR)

Regional Destinations

- Metropolitan Job Centers
- O Regional Job Centers
- Subregional Job Centers
- ▲ Large High Schools
- ▲ Colleges & Universities
- Major Sport & Entertainment Centers
- Highly Visited Regional Parks



Reference Items



Study Background

Critical Bicycle Transportation Links serve one or more of the following functions:

- Close a gap in the RBTN or connect a local bikeway to a major regional destination.
- Improve continuity and connections between jurisdictions (on or off the RBTN)
- Improve or remove a physical barrier (on or off the RBTN)



Study Purpose

- Assess existing and potential bicycle crossing opportunities of regional barriers
- Analyze regional physical barriers to bicycling and where they impact continuity of regional and local bicycle networks
- Inform the TPP update



Scope of Study

Study will consider major *physical* regional barriers to bicycle travel including:

- Secondary rivers & streams
- Mainline railroad corridors
- Freeways and expressways



Scope of Study

Key Technical Tasks:

- 1. Identify existing & planned barrier crossings
- 2. Determine preferred maximum spacing of barrier crossings
- 3. Identify deficiencies in barrier crossing opportunities
- 4. Evaluate and rank potential new crossing locations
- 5. Identify 5 high potential demo sites for planning level concept development



Technical Advisory Work Group

- Metropolitan Council, MnDOT
- Each of 7 MPO counties
- Saint Paul & Minneapolis
- Suburban Cities: Richfield, Maplewood, Chaska, New Brighton
- Bloomington Bicycle Alliance
- Transit for Livable Communities
- Parks Agencies: Anoka County, Three Rivers Park Dist., Carver County

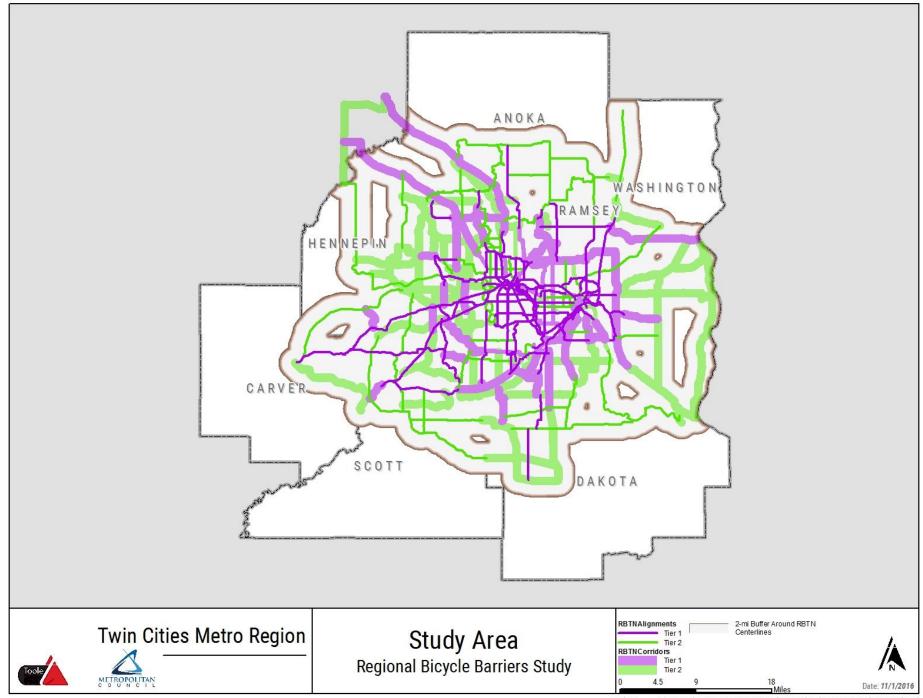


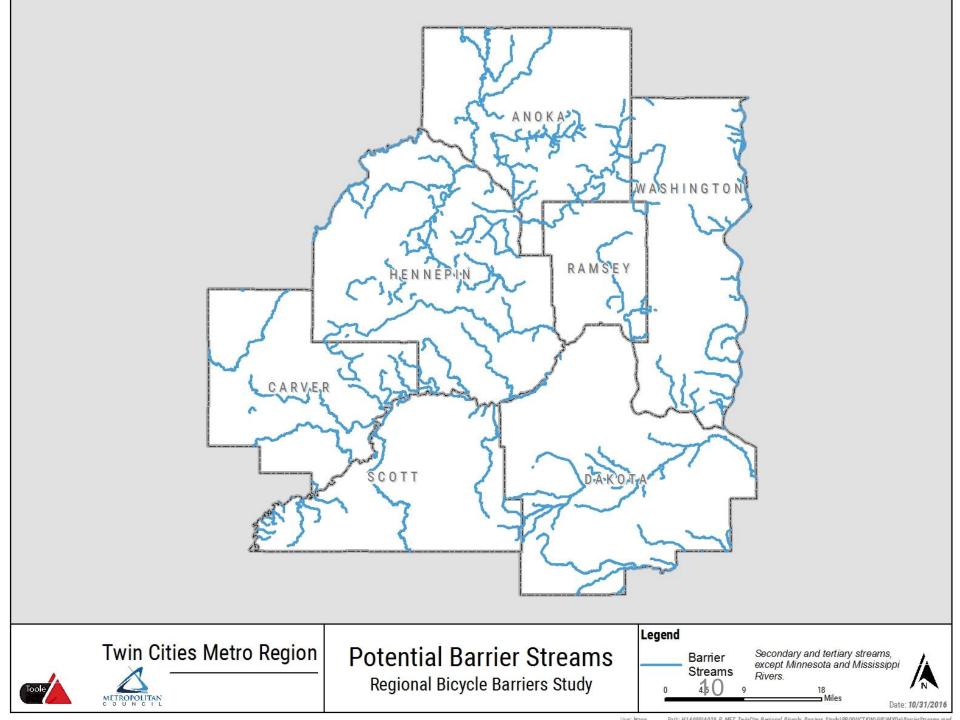
Study Area

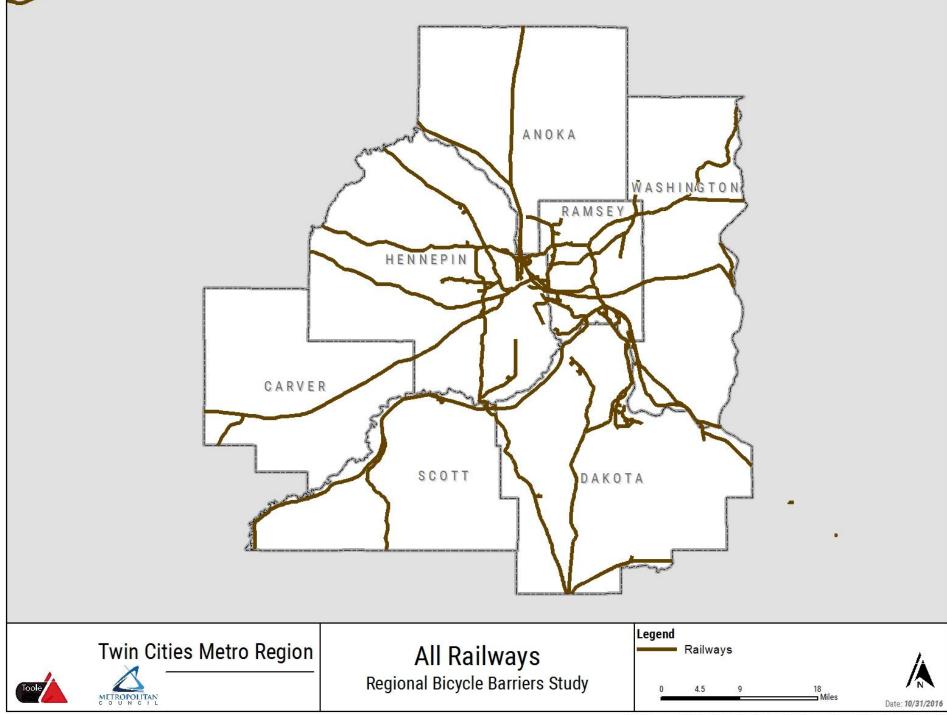
Analysis parameters:

- Generally, within RBTN coverage area
- Analyze barrier segments having bicycle facilities w/in one half-mile on both sides of the barrier

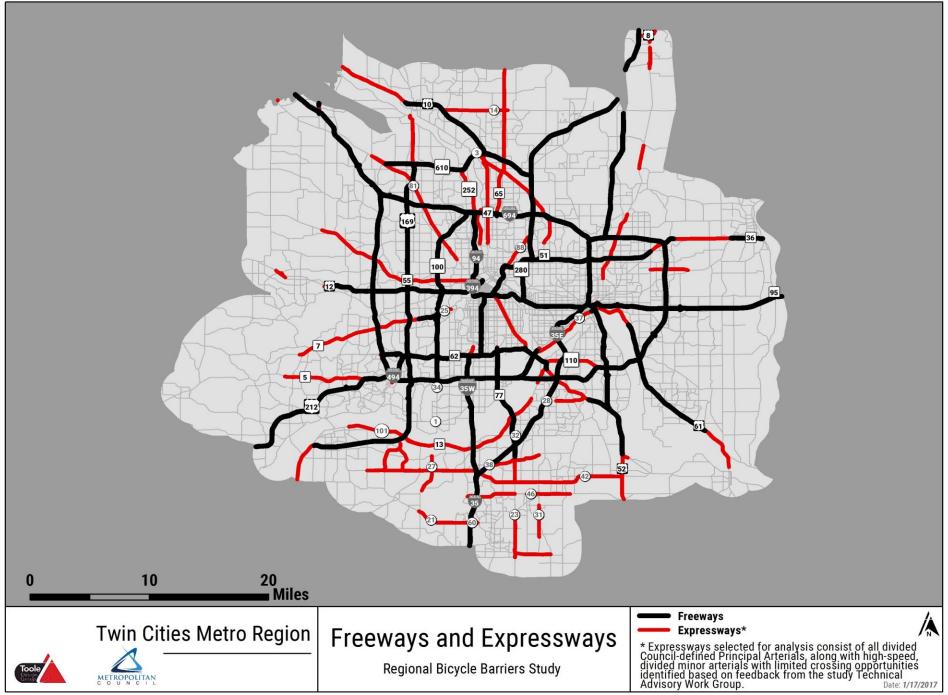




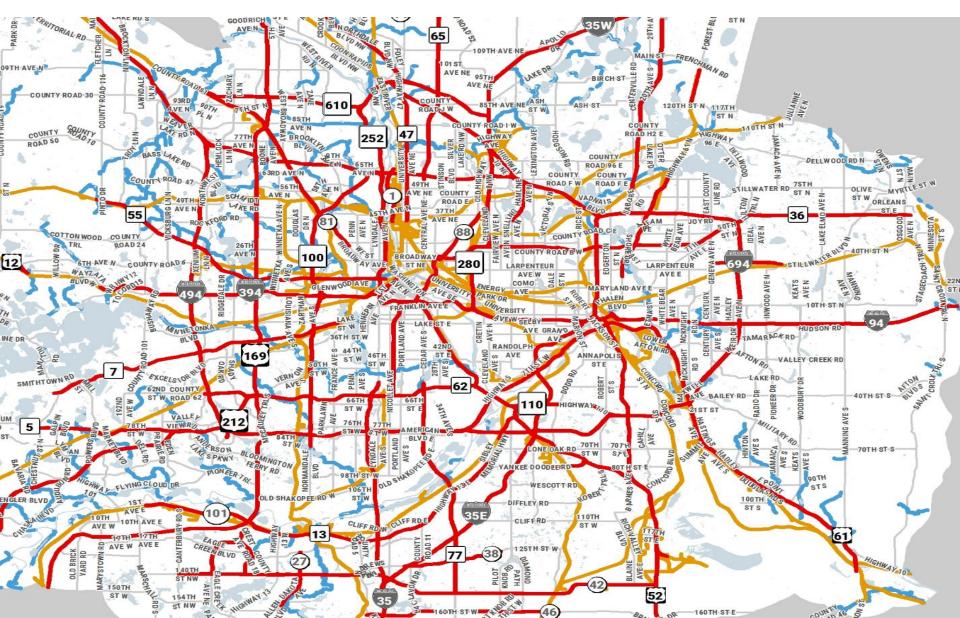




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Regional Bicycle Barriers



Barrier Crossing Spacing Criteria

TAWG Spacing	Criteria
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Thrive Planning Area	Preferred Max. Spacing	Example Cities
Urban Center	½ mile	Mpls, St Paul, Richfield, Hopkins, West St Paul
Urban	¾ mile	Most 1 st ring suburbs
Suburb/Suburb. Edge	1 mile	2 nd ring sub's, Blaine, Woodbury, Maple Grove, Eagan, Lakeville
Emerging Suburb Edge, Rural, Rural Center	2 miles	Hastings, Rosemount, L. Elmo, Forest Lake

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Analysis Factors

Factor	Example Measures	Weight
Connectivity	 Exist/planned local bikeways RBTN corridors/alignments Exist/planned regional trails Proximity to existing crossing 	48%
Demand	 2040 Pop/emp densities Transit ridership Schools/colleges Wiki-map new crossing points 	24%
Safety/Existing Conditions	 Current Pop/emp densities Bike/Ped crashes (w/in 500') Bike/Walk mode share Wiki-map "problem" crossings 	15%
Equity	 ACP & ACP-50s Minority pop density (census) Pop of seniors/children Zero car households 	12%



Wiki-Map Data Points **Twin Cities** off-street bikeway Twin Cities Regional Bicycle improvement needed o on-street bikeway OC in on the G Met Council defined barrier



existing facilities

freeways & expressways railways

streams

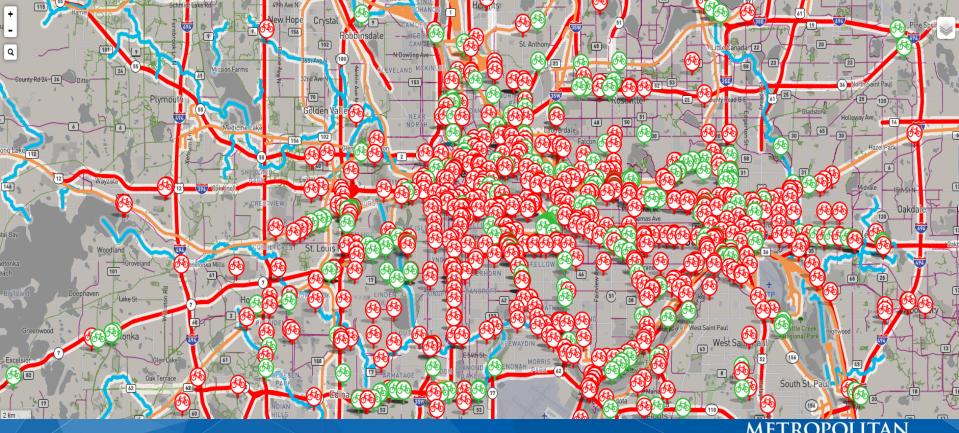
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About & Help - add point

METROPOLITAN Barriers Study

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Anticipated Outcomes

- List and map of critical barrier crossing improvement locations
 - Will be ranked and tiered
 - Proposed in TPP
- Crossing point rankings may be applied in project selection criteria for Regional Solicitation
- Crossing site planning concepts

 Five high-potential demonstration locations
- Final Study report



RBBS Next Steps

- TAWG Meeting July 20
 - will determine five sites for planning concept development
- Complete barrier crossings analysis
- Crossing planning concept development (Aug-Sept)
- Public workshops/agency reviews – crossing location concepts late Sept/Oct.
- Final Study complete by late fall



Questions/Discussion

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