Twin Cities Regional Bicycle Barriers Study

Land Use Advisory Committee July 20, 2017



Regional Bicycle Transportation Network Vision



- V Tier 1 Alignments
- Tier 2 Alignments

RBTN Corridors (Alignments Undefined)

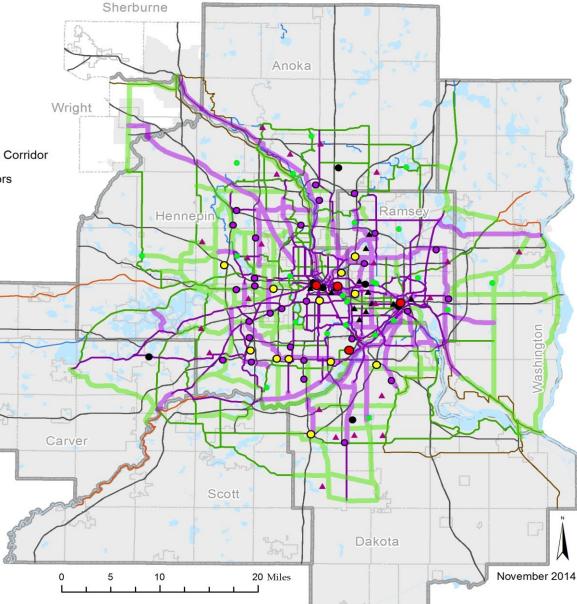
- Tier 1 Priority Regional Bicycle Transportation Corridor
- Tier 2 Regional Bicycle Transportation Corridors

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)



Scope of Study

Study will consider major <u>physical</u> 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



Study Opportunities

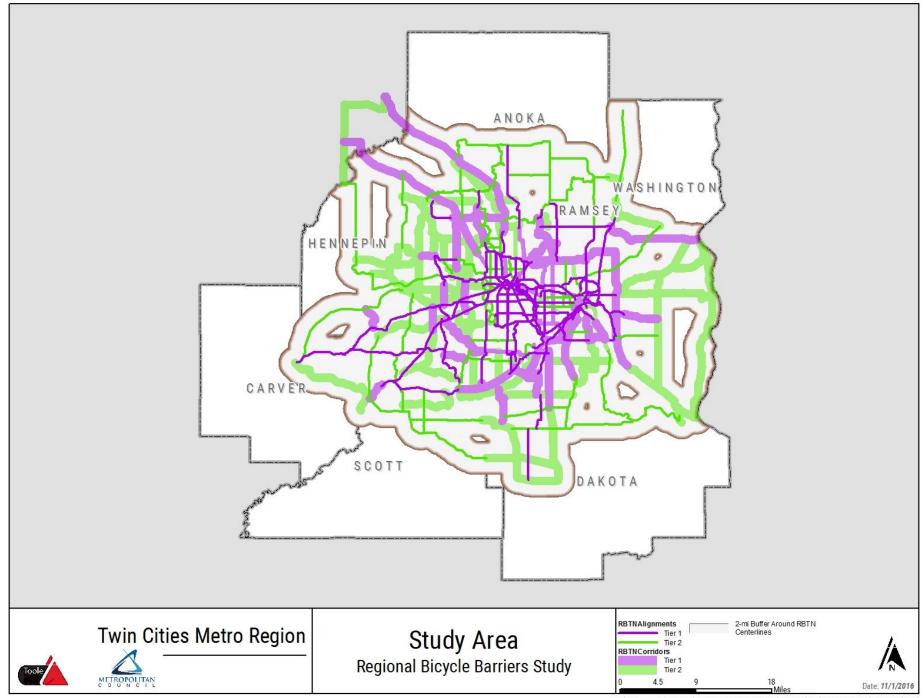
- 1. Increase awareness of barrier crossing needs on the RBTN and local networks
- 2. Identify and highlight new barrier crossing improvement locations
- 3. Highlight six high-potential barrier crossing improvement sites for planning level analysis
- 4. Elevate visibility of local barrier crossing opportunities in local bicycle plans and potential for implementation.

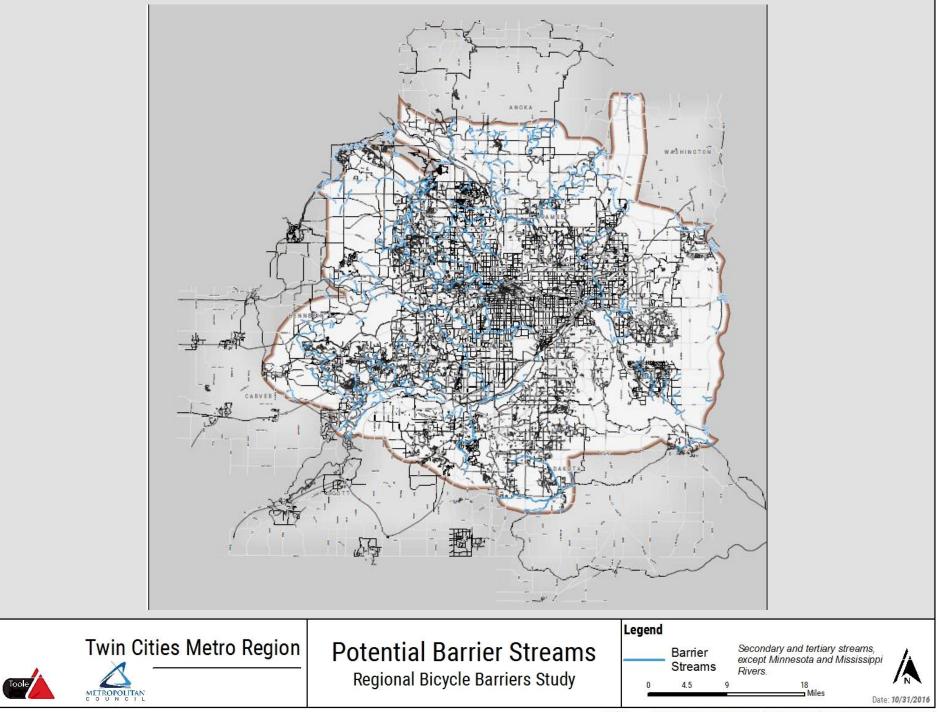


Technical Advisory Work Group

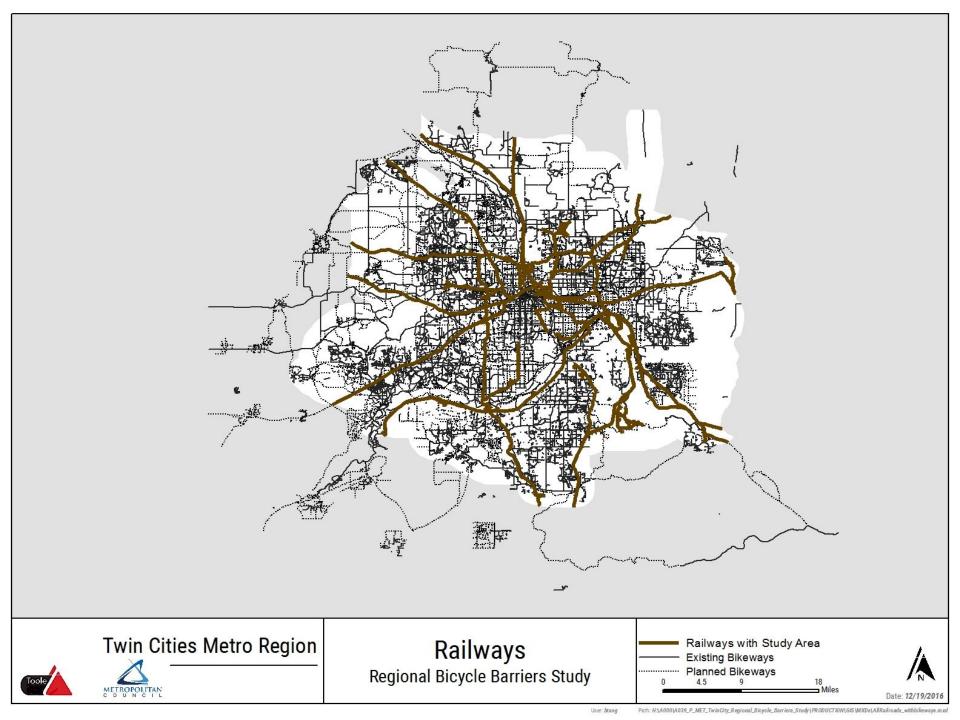
- Metropolitan Council, MnDOT
- Each of 7 MPO counties
- Saint Paul & Minneapolis
- Suburban Cities: Richfield, Maplewood, Chaska, New Brighton
- Bloomington Bicycle Alliance
- Transit for Livable Communities
- Parks Agencies: Anoka County, Three Rivers Park Dist., Carver County

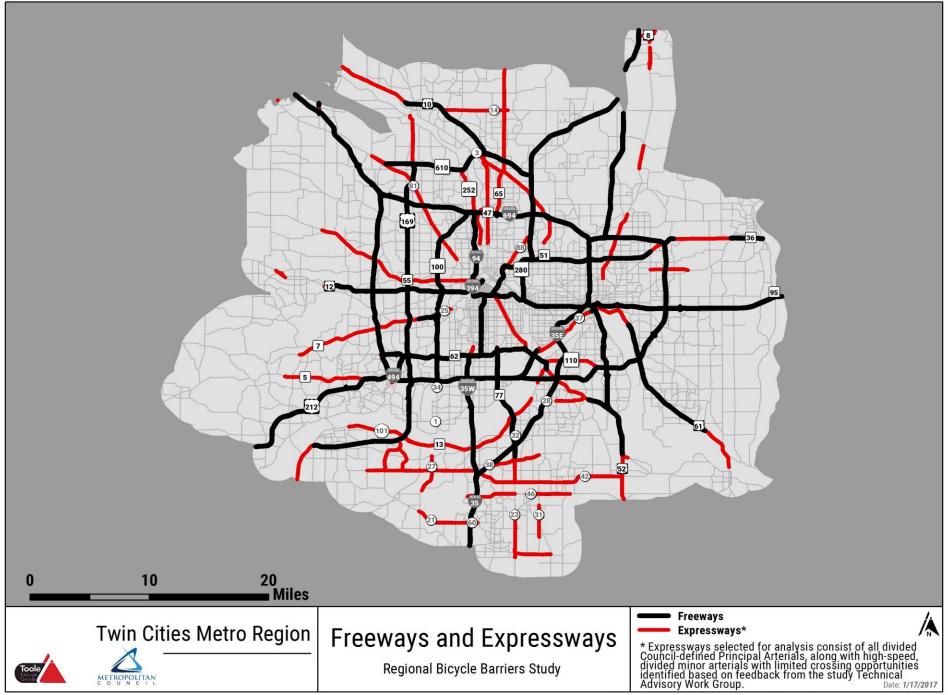


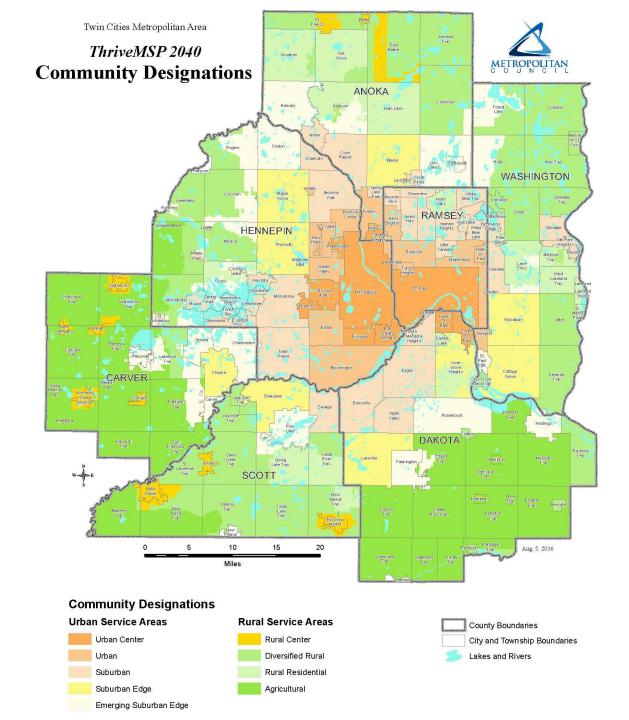


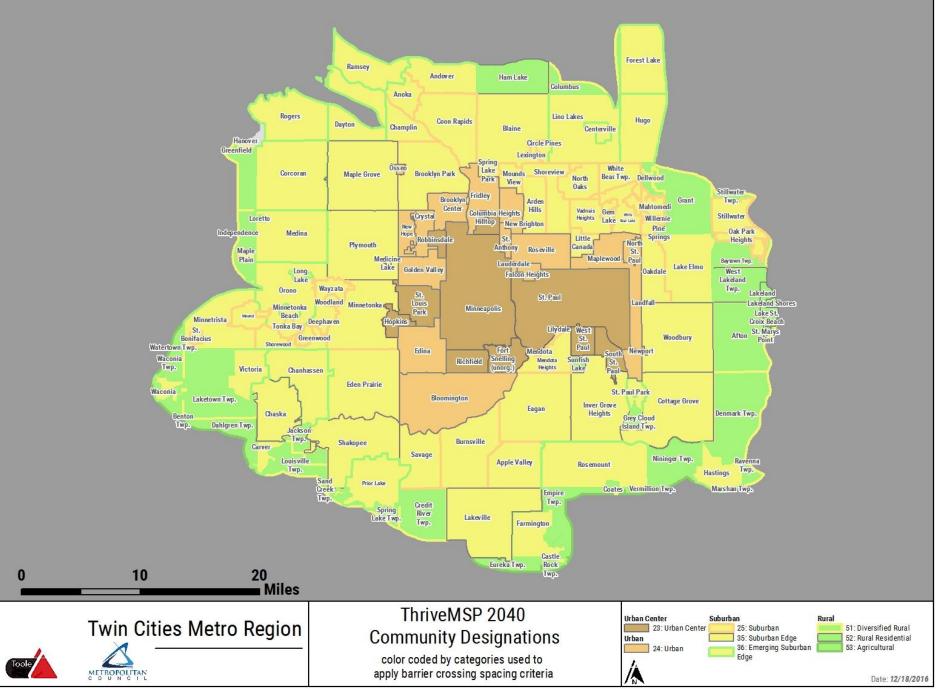


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Barrier Crossing Spacing Criteria

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 existing facilities o on-street bikeway OC in on the G Met Council defined barrier



new crossing needed

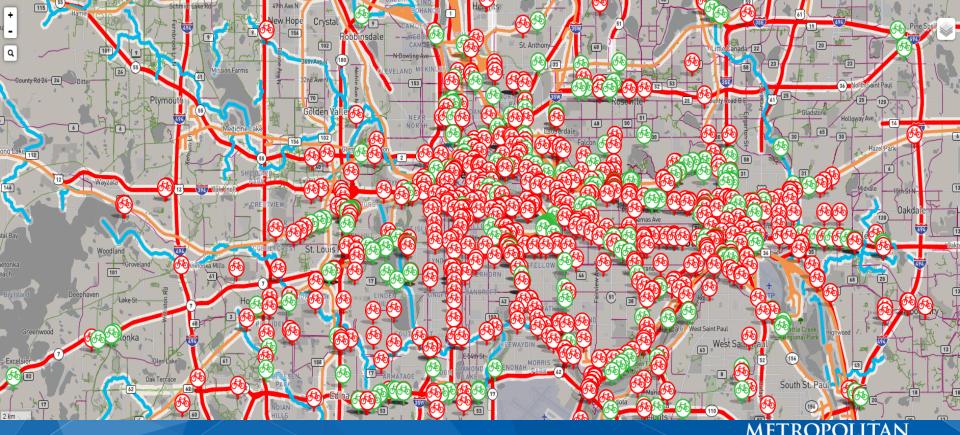
freeways & expressways railways streams

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CICK on "add complete the Welcome page to provide input on existing and future point to provide input on the map after adding your point. barrier crossings For instructions, see "About & Help" below.

About & Help - add point

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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



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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