Twin Cities Regional Bicycle Barriers Study

Transportation Committee September 11, 2017



Regional Bicycle Transportation Network Vision



- V Tier 1 Alignments
- Tier 2 Alignments

RBTN Corridors (Alignments Undefined)

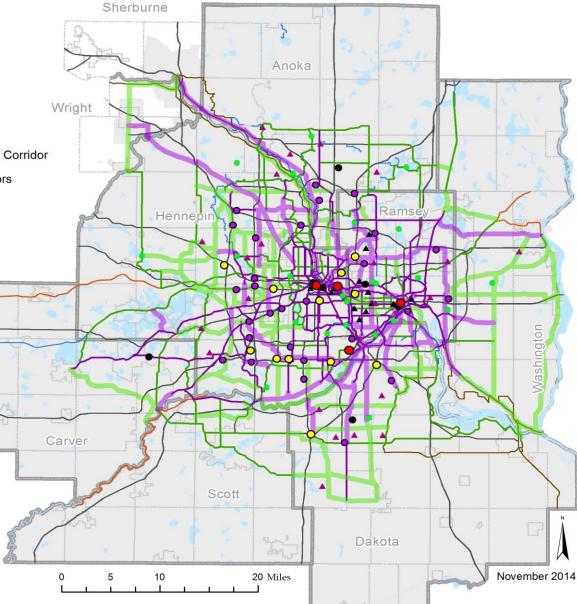
- Tier 1 Priority Regional Bicycle Transportation Corridor
- Tier 2 Regional Bicycle Transportation Corridors

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:

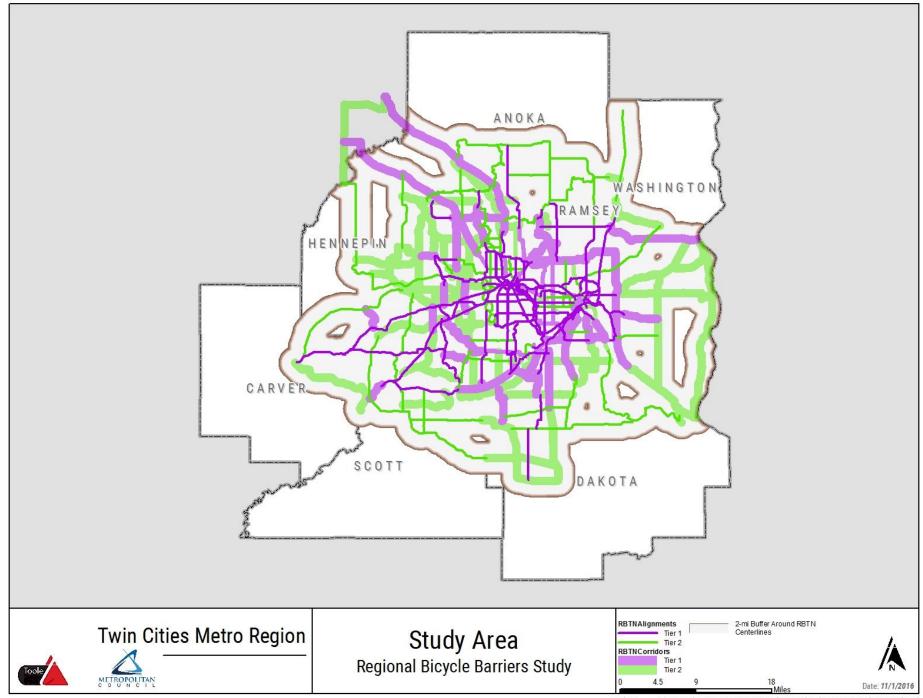
- 1. Identify existing & planned barrier crossings
- 2. Determine preferred maximum spacing of bicycle barrier crossings
- 3. Identify deficiencies in barrier crossing opportunities
- 4. Evaluate, rank, and map potential new or existing crossing improvement locations

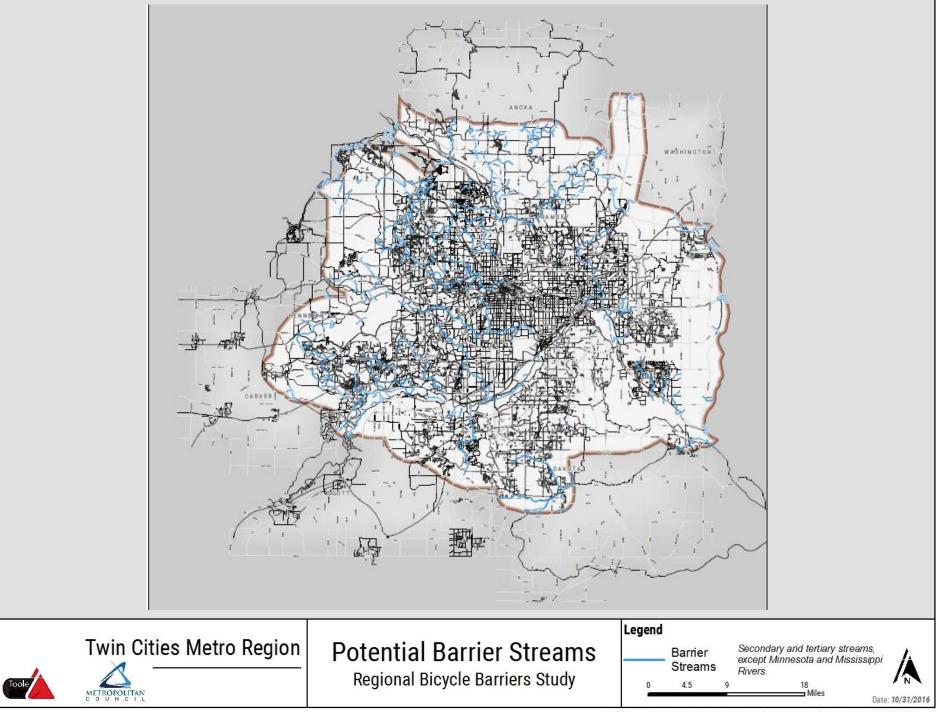


Technical Advisory Work Group

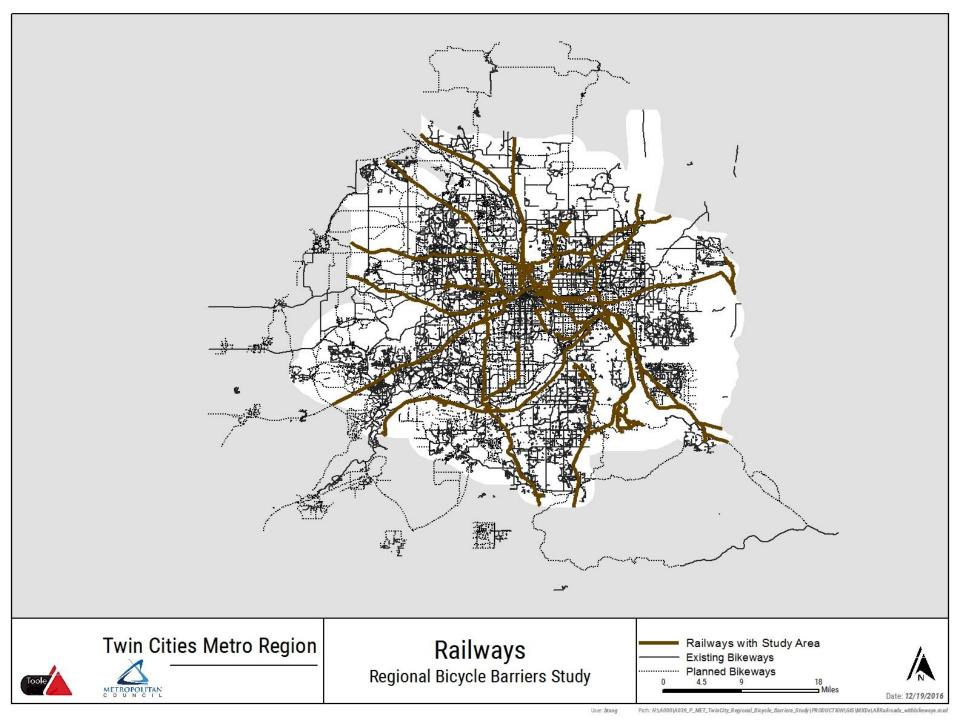
- Metropolitan Council, MnDOT
- Each of the 7 metro counties
- Saint Paul & Minneapolis
- Suburban Cities: Richfield, Maplewood, Chaska, New Brighton
- Bloomington Bicycle Alliance
- Transit for Livable Communities
- Parks Agencies: Anoka County, Three Rivers Park Dist., Carver County

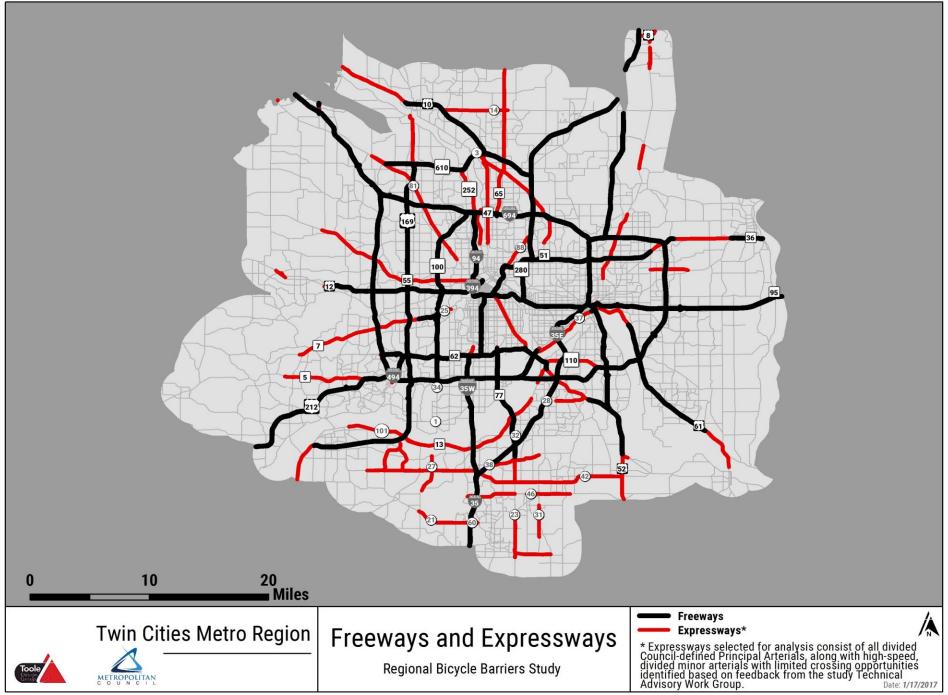


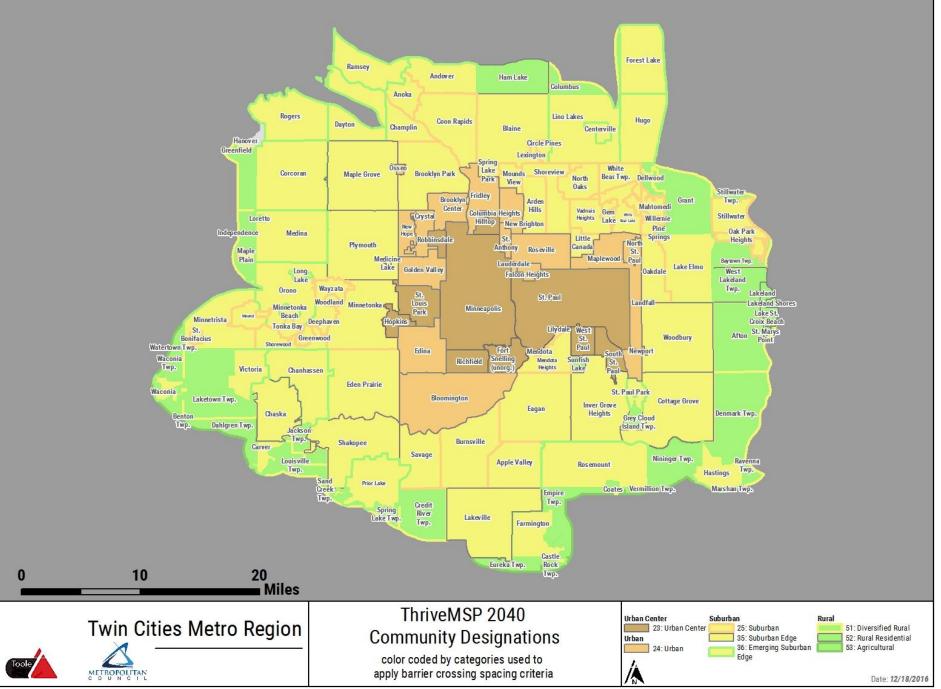




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Barrier Crossing Spacing Criteria

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



existing facilities

freeways & expressways

St

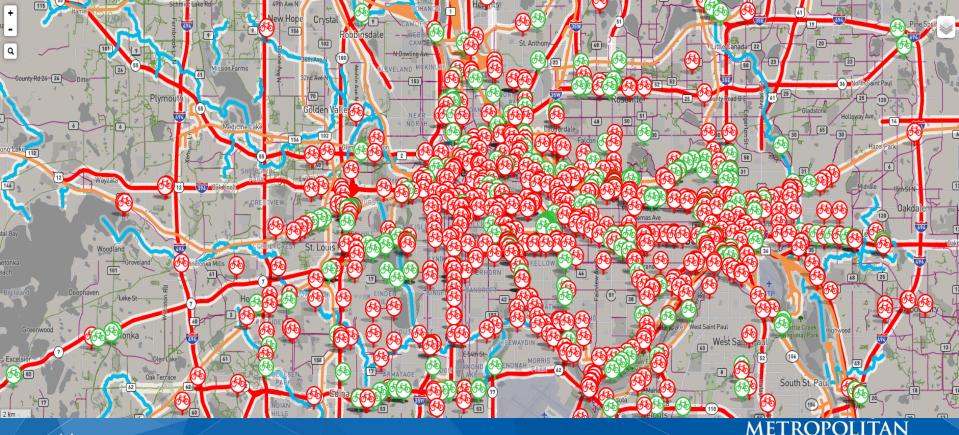
railways streams

Click 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

METROPOLITAN Barriers Study

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Anticipated Outcomes

- Map of regional bicycle barriers with prioritized crossing improvement locations
 - To be ranked and tiered
 - Proposed in TPP as regional bicycle barrier crossings
- Barrier crossing location tiers may be applied for Regional Solicitation project funding



RBBS Next Steps

- Complete barrier crossings analysis (late Sept-Oct)
- Map regional barriers w/high-scoring crossing points identified
- TAWG Meeting mid-late October
 - will review top ranked crossing locations to discuss priority tiering
- Incorporate study background and barriers concept into draft TPP
- Complete final study by end of year



Questions/Comments

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