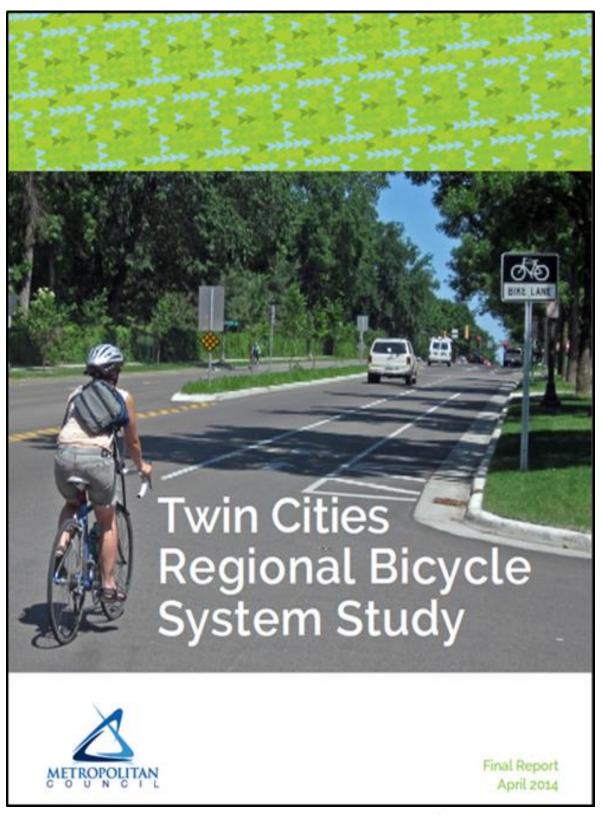
Regional Bicycle Transportation Network Facility Guidelines & Measures Study



Regional Bicycle Transportation Network (RBTN)

Regional Bicycle System Study (2014) Work Outcomes:

- Evaluated connectivity of existing networks
- Determined key regional destinations
- Developed guiding principles/criteria for defining regional bicycle corridors
- Developed a proposed regional bicycle network for transportation





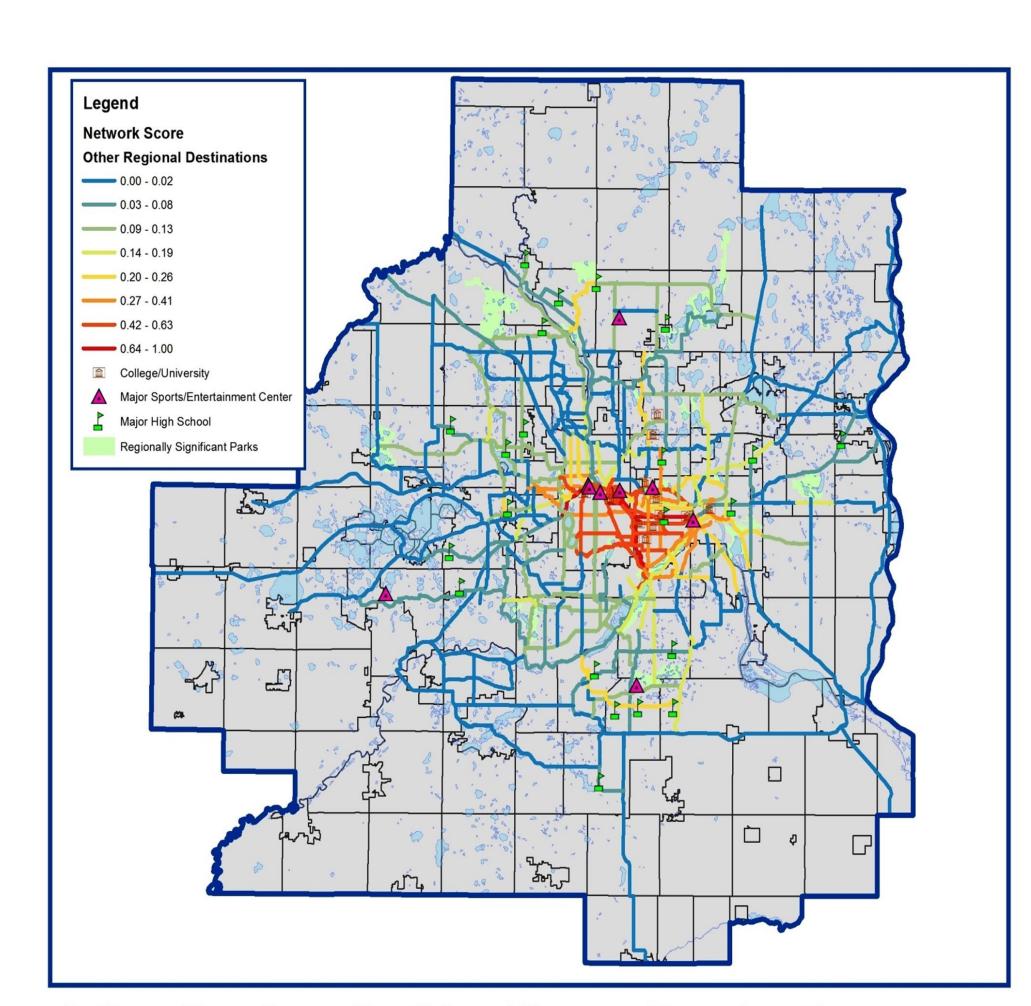
RBTN Guiding Principles

- Overcome physical barriers & eliminate system gaps
- Facilitate safe and continuous trips to regional destinations
- Function as arteries to connect regional destinations & transit system year round
- Connect to local & state bikeways
- Accommodate a broad range of cyclist abilities and preferences
- Integrate &/or supplement existing & planned infrastructure
- Provide improved opportunities to *increase bicycle mode* share
- Consider opportunities to enhance economic development
- Be equitably distributed throughout the region
- Follow spacing guidelines to reflect established development and transportation patterns
- Consider priorities reflected in adopted plans



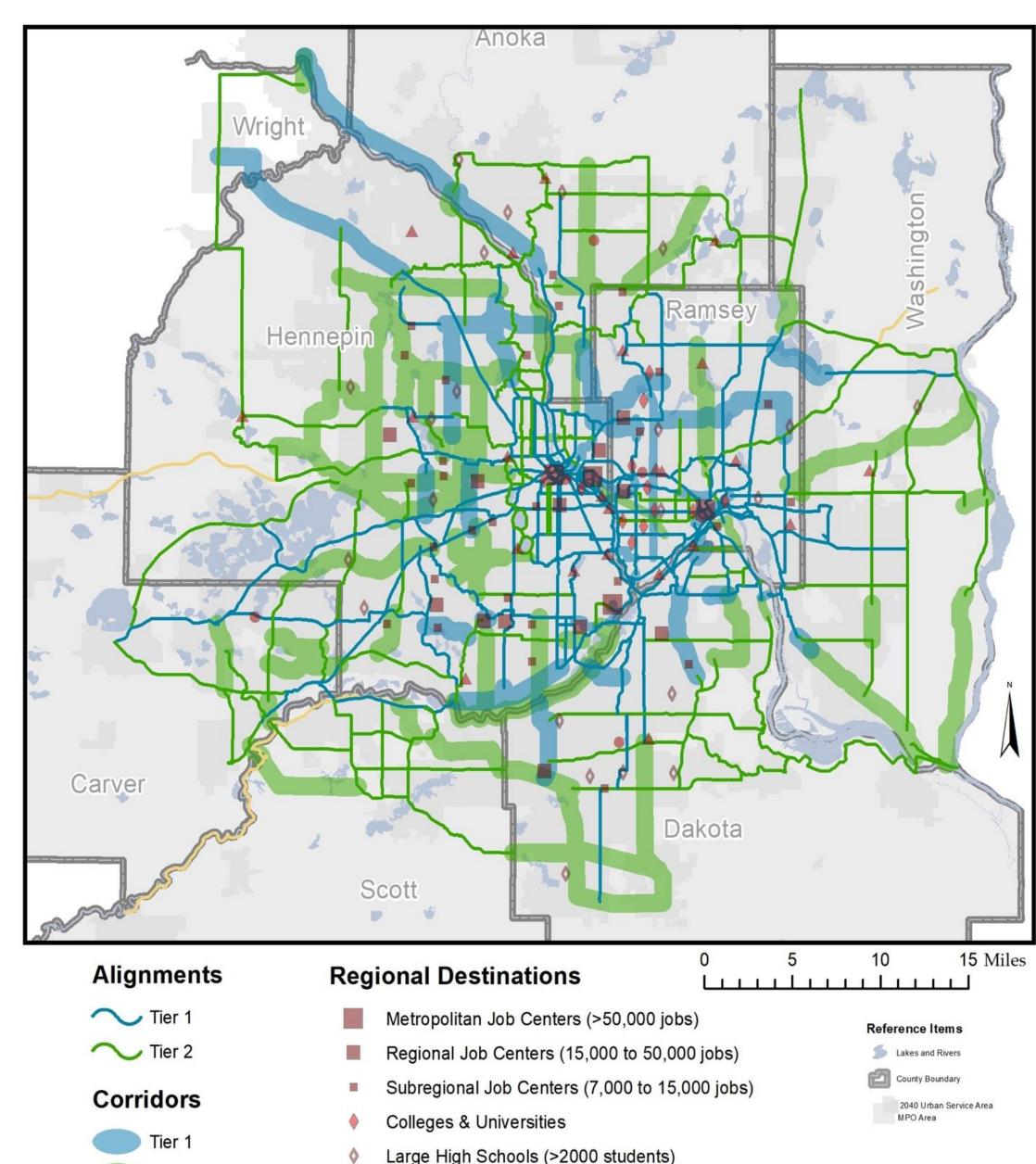
RBTN Analysis Factors

- Existing/future population density
- Connectivity to regional destinations
 - Metropolitan, regional & sub-regional job centers
 - Regional sport and entertainment venues
 - High schools & universities
 - Popular regional parks
- Public feedback routes & destinations
- Bicycle travel demand
- Connectivity to regional transitways
- Social/economic equity



Regional Bicycle Transportation Network

- Consists of a series of designated alignments & planned corridors
- Grouped into two priority tiers based on analysis factors applied in original study
- Used in Regional Solicitation to distribute federal transportation dollars



Major Sport & Entertainment Centers

Tier 2

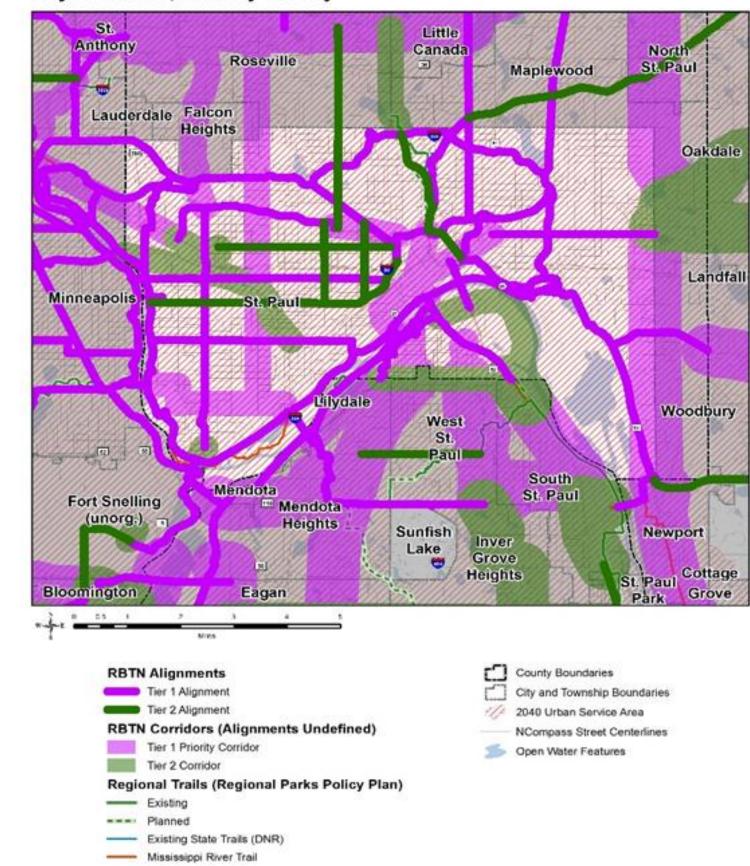
RBTN establishes regional "backbone" arterial network to serve daily bicycle transportation needs by connecting regional destinations and local bicycle networks.

Corridors

- Specific alignments not yet designated
- Provide connections to & between regional destinations

Alignments

 Identified existing or planned trails and on-street bikeways within corridors Regional Bicycle Transportation Network (RBTN) City of St Paul, Ramsey County



RBTN Bikeway Facility Guidelines and Quantitative Measures Study

Process for Updating the RBTN

- Prior to each Regional Solicitation, given local agencies opportunity to request minor changes to RBTN corridors or alignments
- Requests reviewed qualitatively in context with the 11 Guiding Principles
- Currently working to formalize the process to allow for more significant RBTN changes to be considered prior to each Regional Solicitation (every 2 years)
- Desirable to have more quantitative means to evaluate proposed updates to the RBTN



RBTN Bikeway Facility Guidelines and Quantitative Measures Study

Purpose of Study

- To develop recommended quantifiable measures to assist Met Council in evaluating agency-proposed changes to RBTN corridors & alignments
- 2. To provide recommendations for preferred bicycle facility types on RBTN alignments in urban and suburban cities, and in rural areas hosting the RBTN



RBTN Bikeway Facility Guidelines and Quantitative Measures Study

Study to be conducted in two phases

Phase 1: Development of Quantitative Measures

Phase 2: Development of Bikeway Facility Types for RBTN Alignments

Technical advisory role will be done by the Bicycle-Pedestrian Peer Discussion Group consisting of bike and ped planners/engineers from:

- Each of 7 counties
- Key cities
- Regional Park Implementing Agencies
- MnDOT
- Metro Transit



Phase I: Development of Quantitative Measures

Key work tasks:

- Create a methodology to measure spacing between RBTN alignments & corridor centerlines across multiple jurisdictions.
- Create a methodology to compare the "route directness" of a proposed RBTN segment with existing & planned bikeway network segments within the same transportation corridor
- Review the RBTN Guiding Principles and develop up to 4 new measures to quantify their application in evaluating proposed RBTN facilities
- Develop guidelines for how the new measures can be applied in evaluating potential RBTN alignments.

Phase II: Development of Bikeway Facility Types for RBTN Alignments

Key work tasks:

- Review relevant bicycle facility guidelines, studies & plans from state & national sources for possible adaptation to Twin Cities region.
- Consider 3 approaches to defining bicycle facility type planning guidelines:
 - Land use/development patterns emphasis
 - Roadway corridor characteristics emphasis
 - Hybrid approach combining the two and considering other factors cited in reviewed state & national studies/plans
- Select best approach with guidance from the BPPDG and draft RBTN bikeway facility guidelines.

RBTN Study

Project Timeline

Phase I—Sept 2020 to Feb 2021

- Draft quantitative measures January '21
- Final quantitative measures February '21

Phase II—Feb to July 2021

Draft bikeway facility treatment types May '21 Final bikeway treatment types July '21



Questions or Comments?

