

# Regional Bicycle System Master Study

Preliminary Results Update

Transportation Committee  
October 21, 2013



# Introduction

- **Study Goals**
- **Guiding Principles**
- **Bicycle Study System Elements**
- **Analysis Approach**
- **Proposed Regional Corridors & Network**
- **Next Steps**

# Study Goals

- Improve knowledge base of regional bicycle transportation network
  - Evaluate connectivity of existing network
  - Define a set of proposed regional bicycle corridors
  - Evaluate the relative importance of regional corridors
  - Analyze regional barriers and missing links

# Guiding Principles

## Regional Bicycle Corridors should.....

1. Overcome physical barriers & eliminate critical gaps
2. Facilitate safe and continuous trips to regional destinations
3. Function as arteries to connect regional destinations to the transit system
4. Accommodate a broad range of cyclist abilities/preferences
5. Integrate and/or supplement existing and planned infrastructure
6. Provide improved opportunities to increase the share of trips made by bicycle

# Guiding Principles

## Regional Bicycle Corridors should.....

- Connect to local, state and national bikeway networks
- Consider opportunities to enhance economic development
- Be equitably distributed throughout the region
- Follow spacing guidelines to reflect established development and transportation patterns
- Consider regional priorities reflected in adopted bicycle plans

# Bicycle Study System Elements

## Draft Regional Bicycle Transportation Network

- Overall regional “coverage” network
- Forms regional “backbone” system connecting county and local trail systems & regional destinations
- Consist of “corridors” for implementation

## Draft Priority Regional Bicycle Transportation Corridors

- Subset Regional Network overlay map
- Serves the region’s “developed” and “developing areas”
- Will connect to major regional destinations and transit
- Will consist of high use or potentially high use corridors

# Bike Study System Elements (Cont.)

## Draft Critical Bicycle Transportation Links

- Serve to close a gap in Regional Network
- Improve continuity & connections between jurisdictions
- Address a physical barrier (i.e., freeway, railroad corridor, or river)

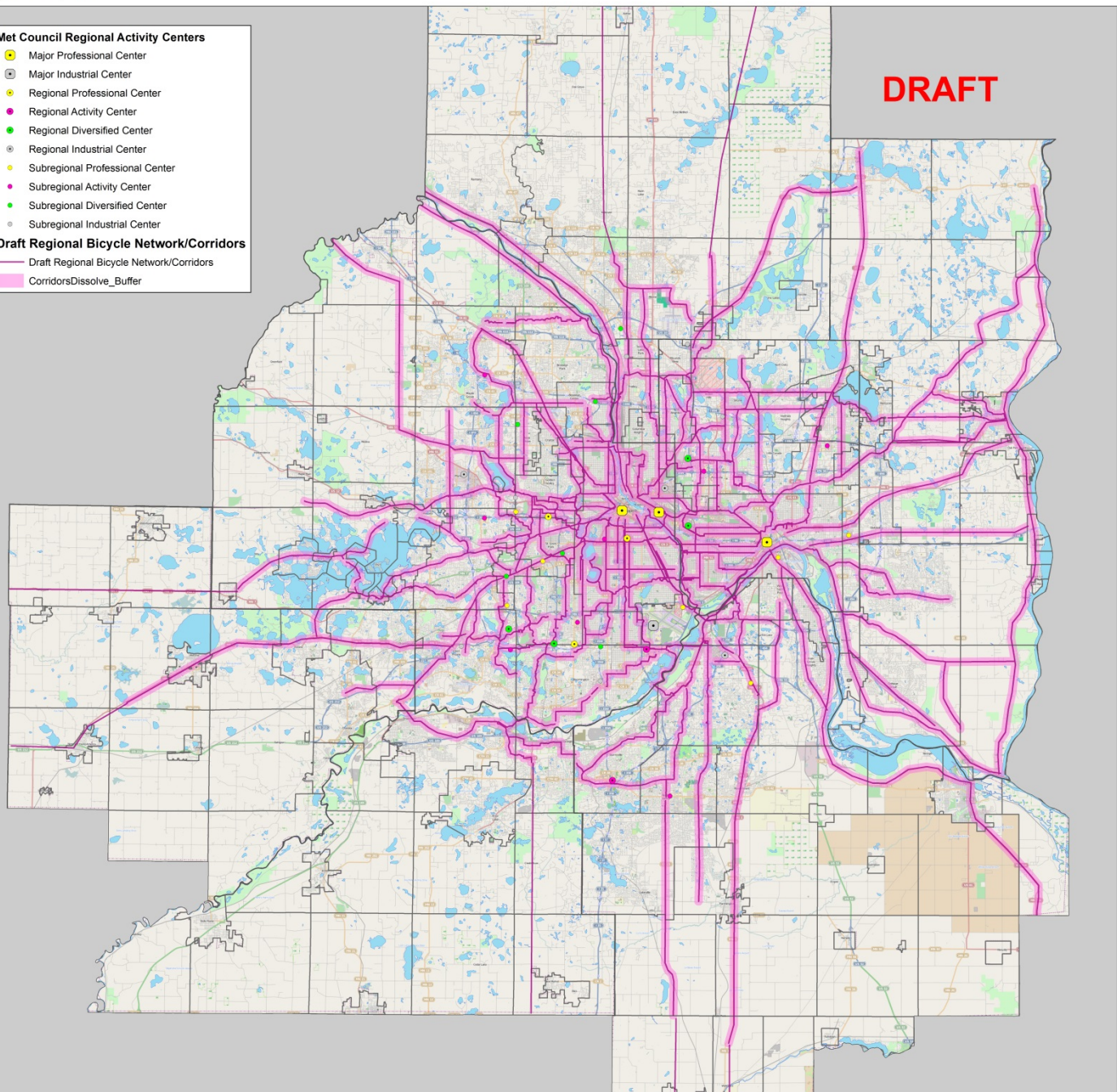
# Analysis Approach & Results

- **Used Cyclopath/Cycloplan systems as background network**
- **Applied variety of data to analyze network:**
  - 2010 U.S. Census data
  - Cycle Tracks origins and destinations
  - Regional job and activity centers
  - 2030 projected population density
  - Proximity to transitways/stations
  - Public input on regional destinations & bike trip routes
  - Land use plans and Met Council development planning areas



- Met Council Regional Activity Centers**
  - Major Professional Center
  - Major Industrial Center
  - Regional Professional Center
  - Regional Activity Center
  - Regional Diversified Center
  - Regional Industrial Center
  - Subregional Professional Center
  - Subregional Activity Center
  - Subregional Diversified Center
  - Subregional Industrial Center
- Draft Regional Bicycle Network/Corridors**
  - Draft Regional Bicycle Network/Corridors
  - CorridorsDissolve\_Buffer

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# Regional Corridors for Analysis



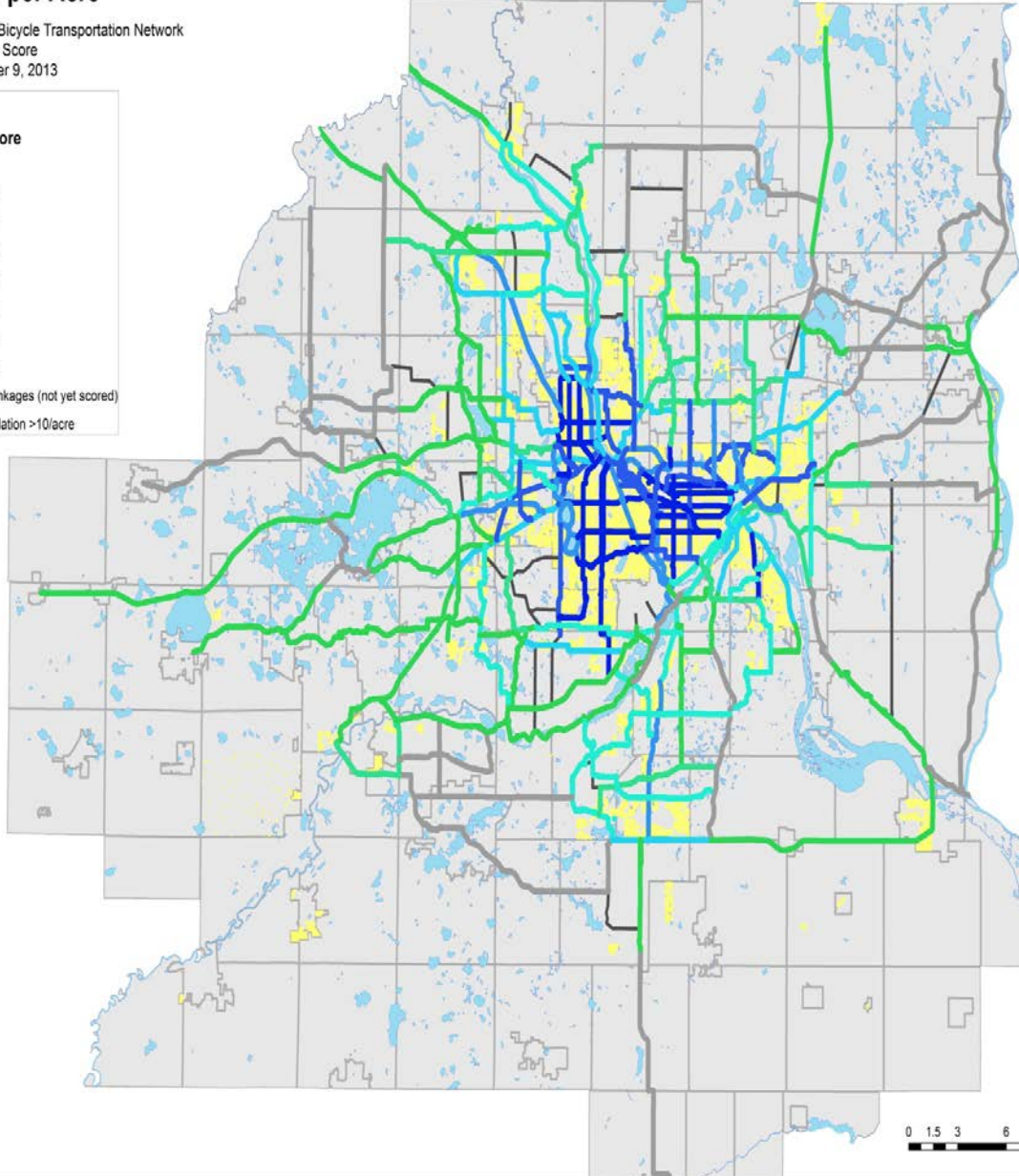
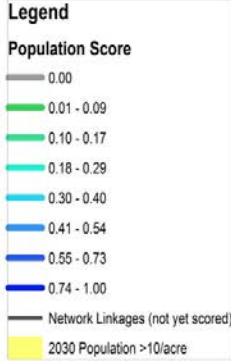
Twin Cities Bicycle Transportation System Master Study

Score: 2030 Population Greater than 10 Persons per Acre

Proposed Regional Bicycle Transportation Network  
Cumulative Corridor Score  
PAC Meeting October 9, 2013

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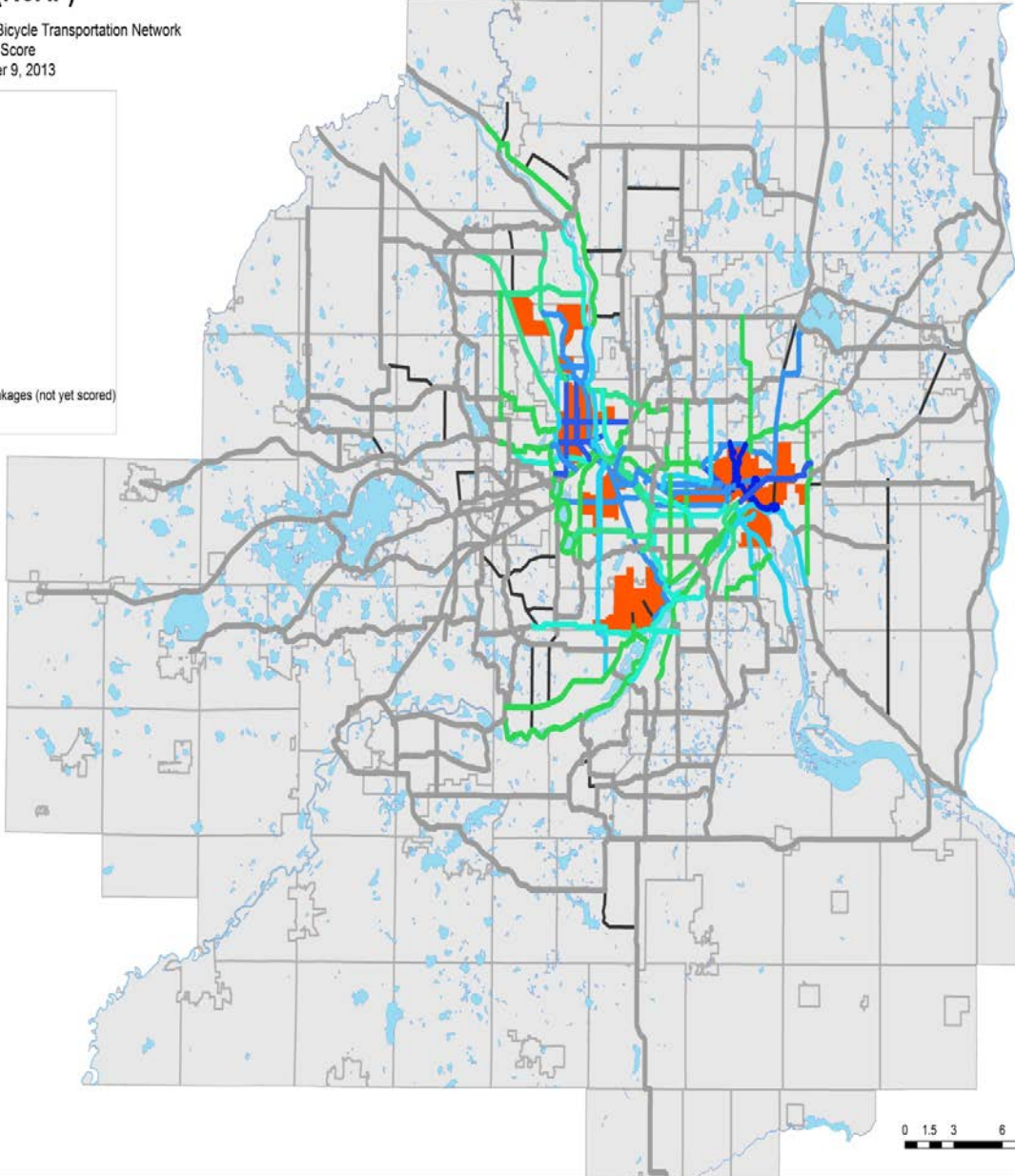
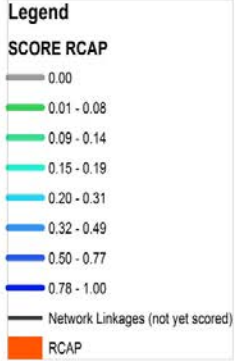
# Future Population Density Analysis



Twin Cities Bicycle Transportation System Master Study  
Score: Service to Racially Concentrated Areas  
of Poverty (RCAP)

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Proposed Regional Bicycle Transportation Network  
Cumulative Corridor Score  
PAC Meeting October 9, 2013



RCAP  
Analysis



Twin Cities Bicycle Transportation System Master Study

Score: 2030 Transitway Stations

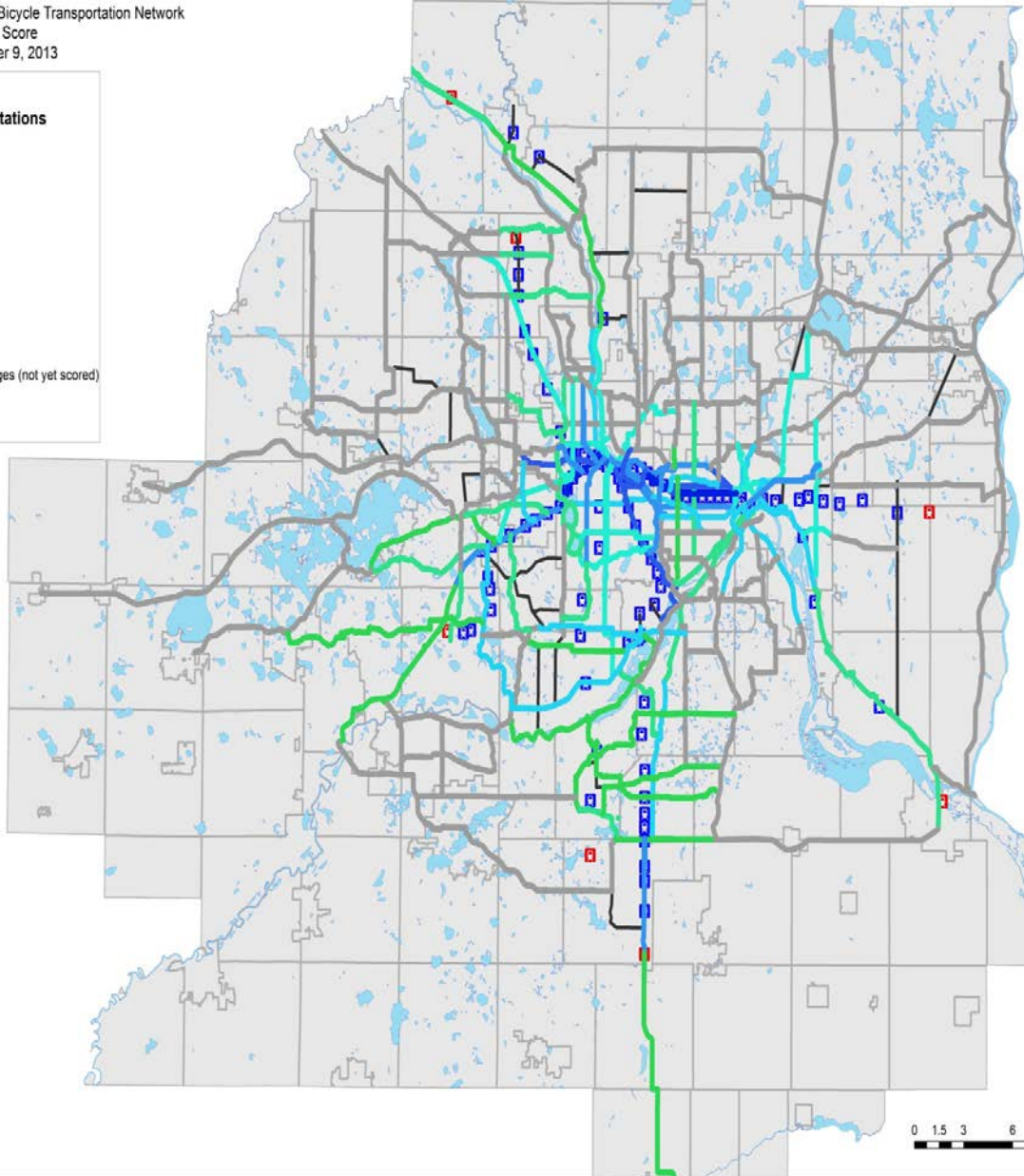
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Proposed Regional Bicycle Transportation Network  
Cumulative Corridor Score  
PAC Meeting October 9, 2013

Legend

SCORE Transit Stations

- 0.00
- 0.01 - 0.08
- 0.09 - 0.13
- 0.14 - 0.22
- 0.23 - 0.35
- 0.36 - 0.53
- 0.54 - 0.72
- 0.73 - 1.00
- Network Linkages (not yet scored)
- Line
- Terminal



# Existing and Future Transitways Analysis



0 1.5 3 6 9 12 Miles



Twin Cities Bicycle Transportation System Master Study

Score: Regional Job & Activity Centers

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Proposed Regional Bicycle Transportation Network  
Cumulative Corridor Score  
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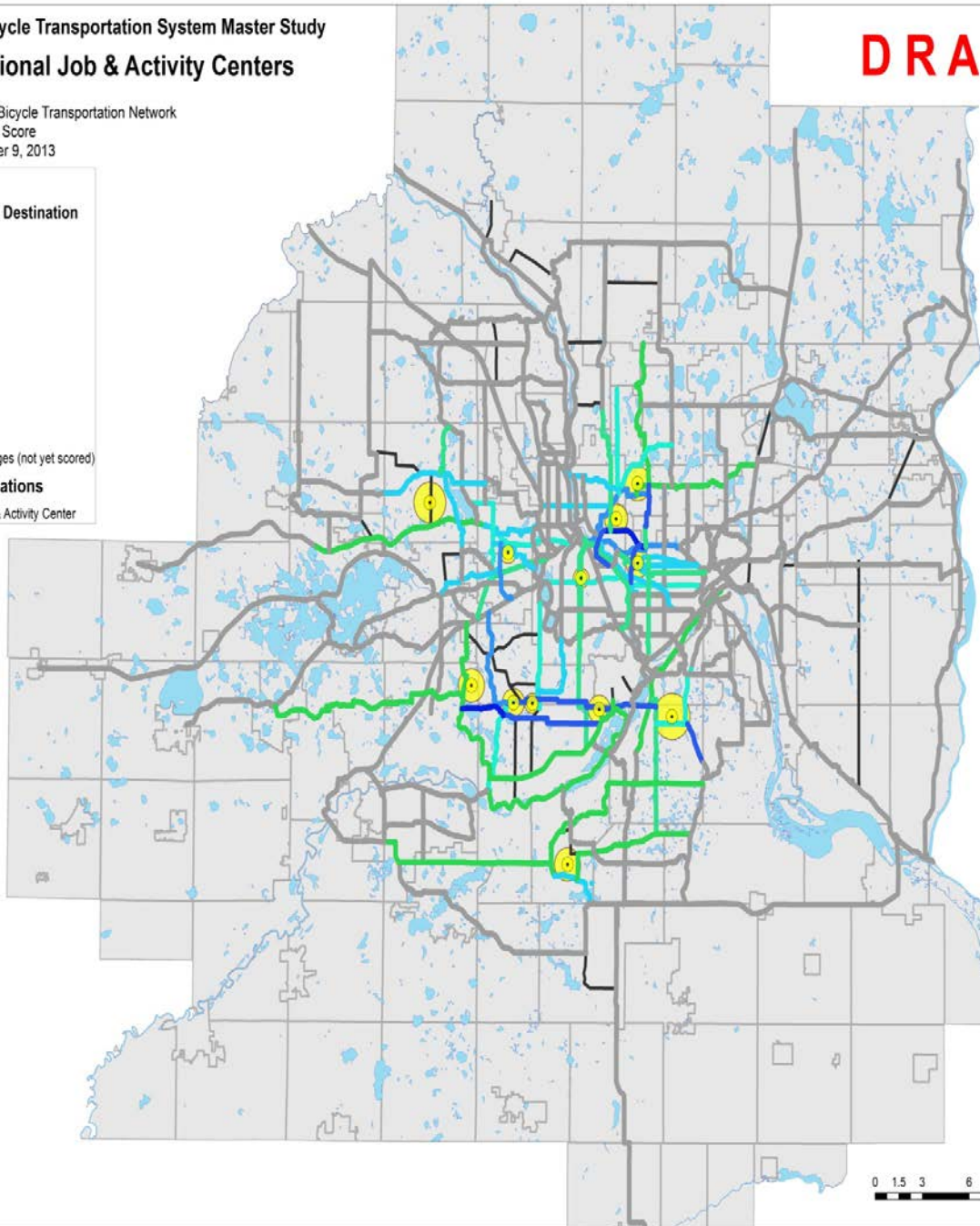
Legend

SCORE Regional Destination

- 0.00
- 0.01 - 0.35
- 0.36 - 0.48
- 0.49 - 0.58
- 0.59 - 0.77
- 0.78 - 0.96
- 0.97 - 1.34
- 1.35 - 1.81
- Network Linkages (not yet scored)

Regional Destinations

- Regional Job & Activity Center



# Regional Centers Analysis



Twin Cities Bicycle Transportation System Master Study  
Score: Sub-Regional Job & Activity Centers

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Proposed Regional Bicycle Transportation Network  
Cumulative Corridor Score  
PAC Meeting October 9, 2013

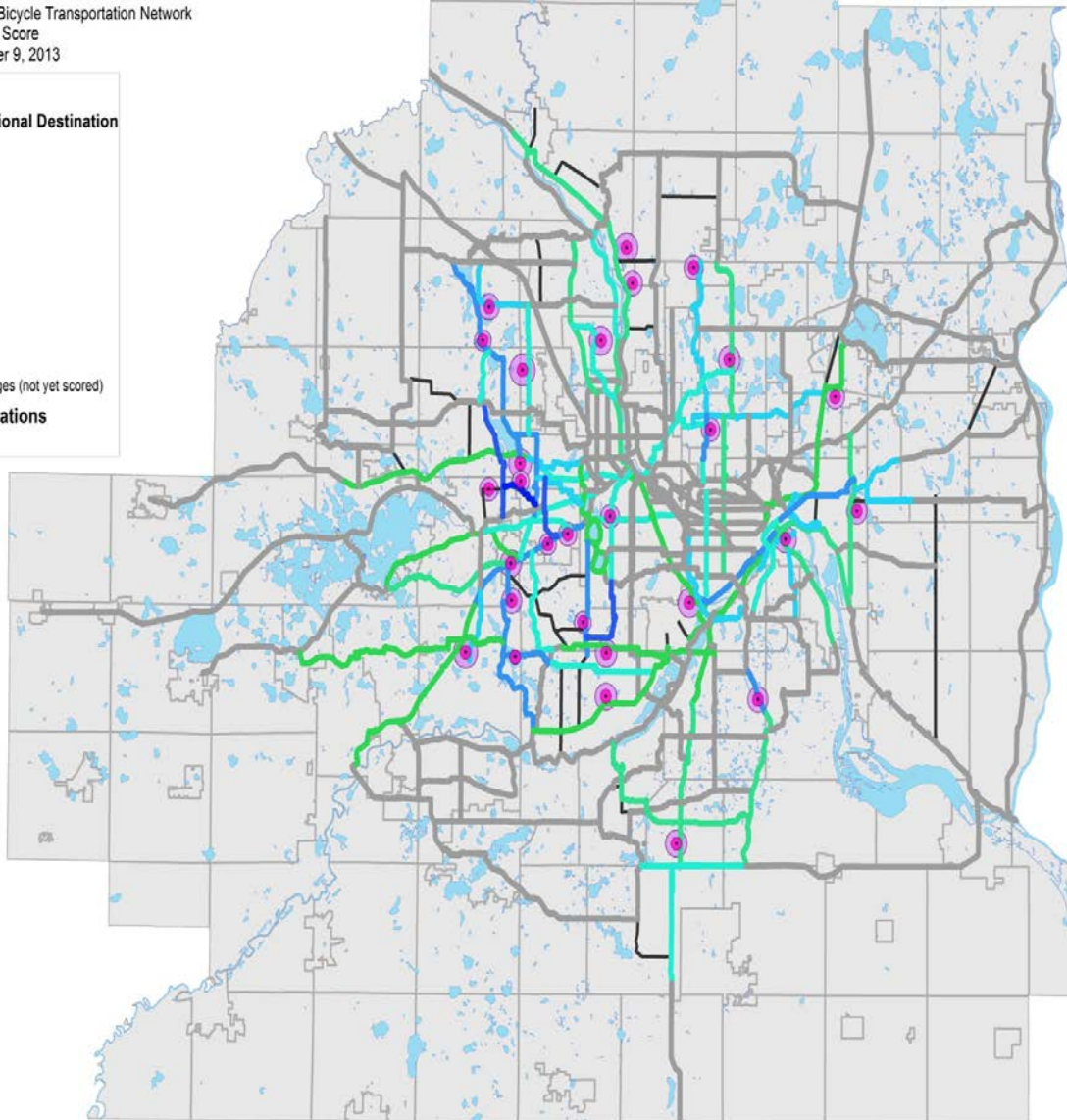
**Legend**

**SCORE Sub-Regional Destination**

- 0.00
- 0.01 - 0.10
- 0.11 - 0.13
- 0.14 - 0.17
- 0.18 - 0.27
- 0.28 - 0.35
- 0.36 - 0.51
- 0.52 - 1.00
- Network Linkages (not yet scored)

**Regional Destinations**

- Subregional



# Sub-Regional Centers Analysis



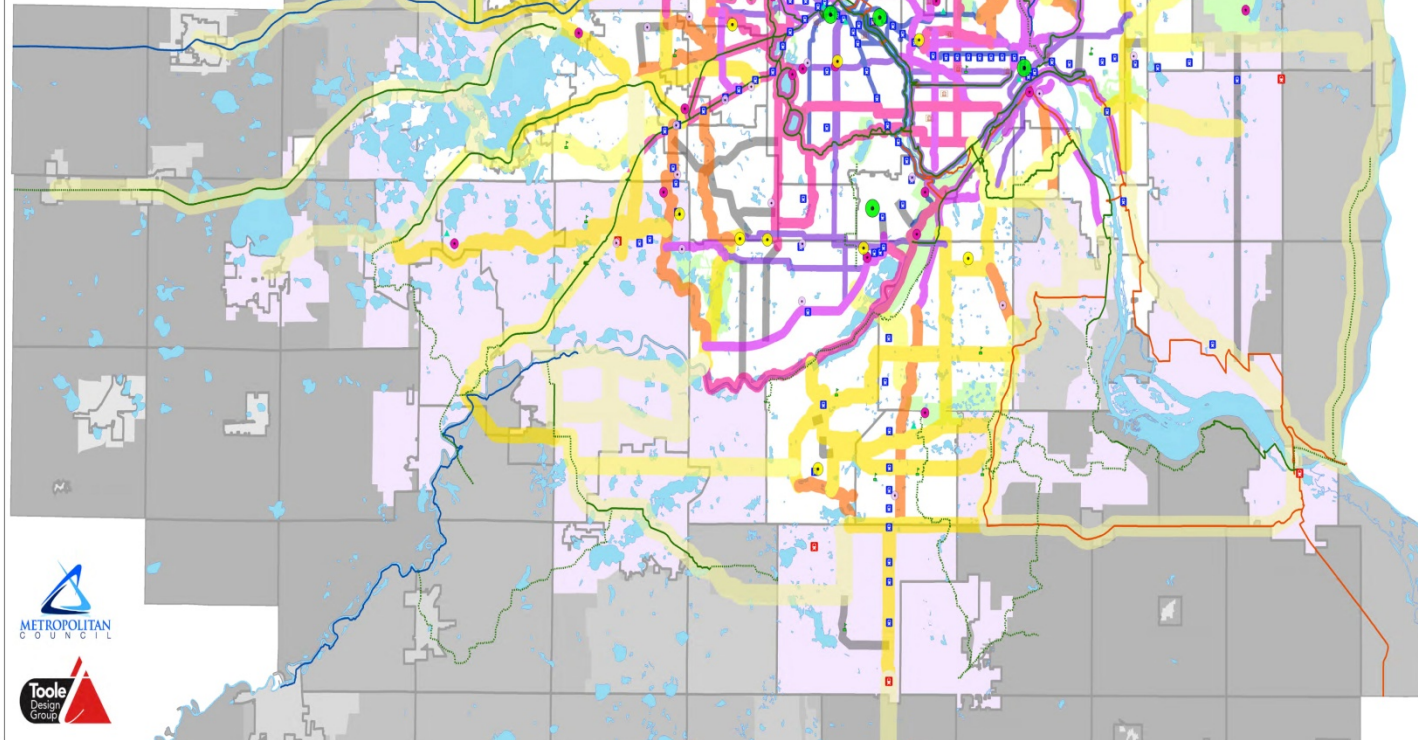
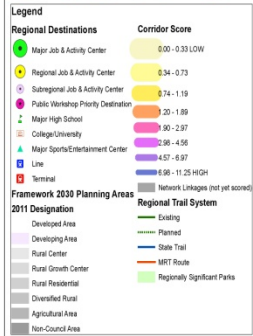
# Twin Cities Bicycle Transportation System Master Study

Proposed Regional Bicycle Transportation Network

Cumulative Corridor Score

PAC Meeting October 9, 2013

# DRAFT



# Regional Corridors Cumulative Scores



# Twin Cities Bicycle Transportation System Master Study

Proposed Regional Bicycle Transportation Network &  
Priority Regional Bicycle Transportation Corridors  
Barriers and Critical Linkages  
PAC Meeting October 9, 2013

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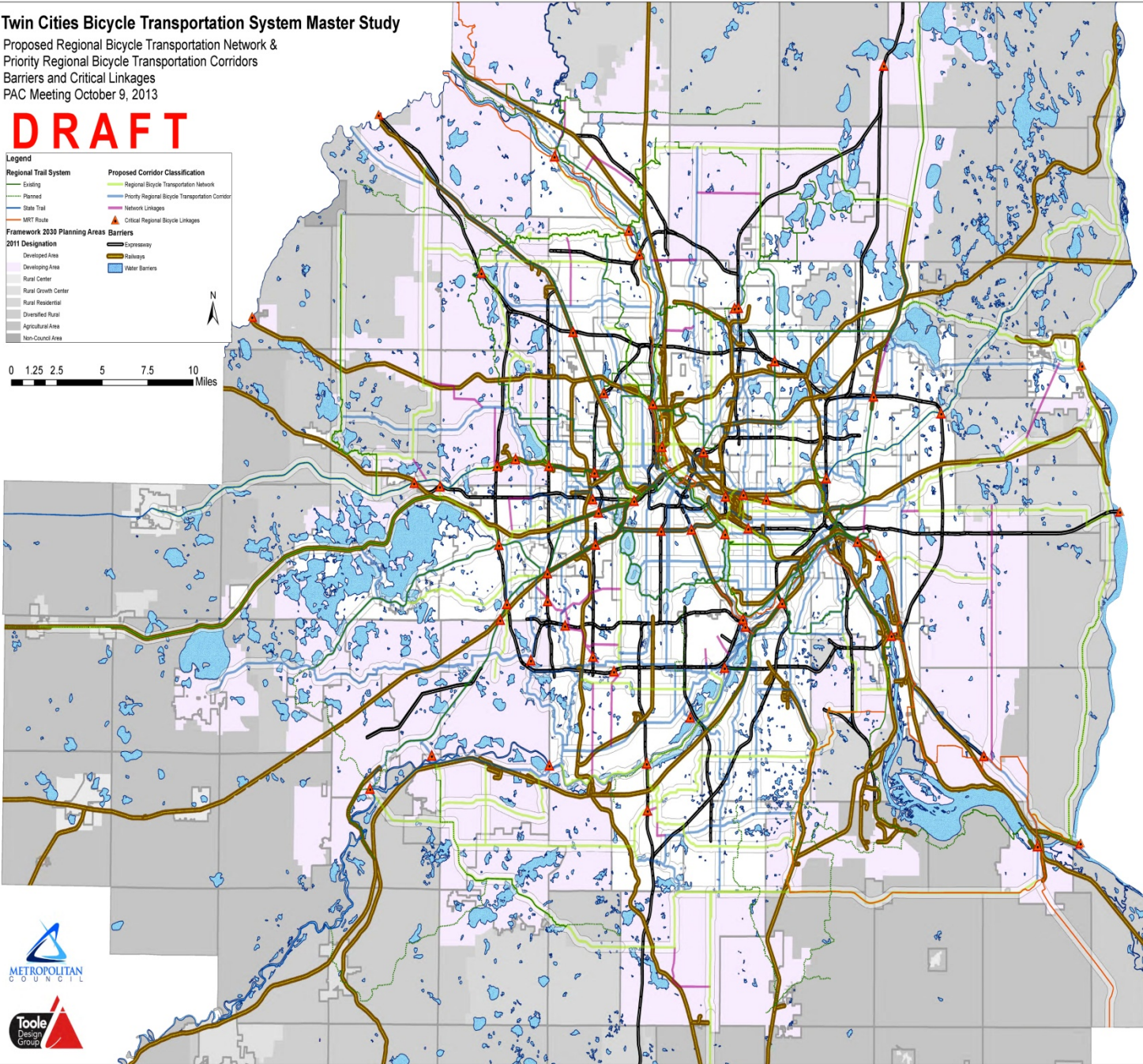
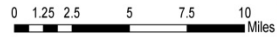
**Legend**

<b>Regional Trail System</b>	<b>Proposed Corridor Classification</b>
Existing	Regional Bicycle Transportation Network
Planned	Priority Regional Bicycle Transportation Corridor
State Trail	Network Linkages
MRT Route	Critical Regional Bicycle Linkages

**Framework 2030 Planning Areas**

Developed Area	Expressway
Developing Area	Railways
Rural Center	Water Barriers
Rural Growth Center	
Rural Residential	
Diversified Rural	
Agricultural Area	
Non-Council Area	

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## Regional Barriers and Critical Linkages



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# Twin Cities Bicycle Transportation System Master Study

Proposed Regional Bicycle Transportation Network &

Priority Regional Bicycle Transportation Corridors

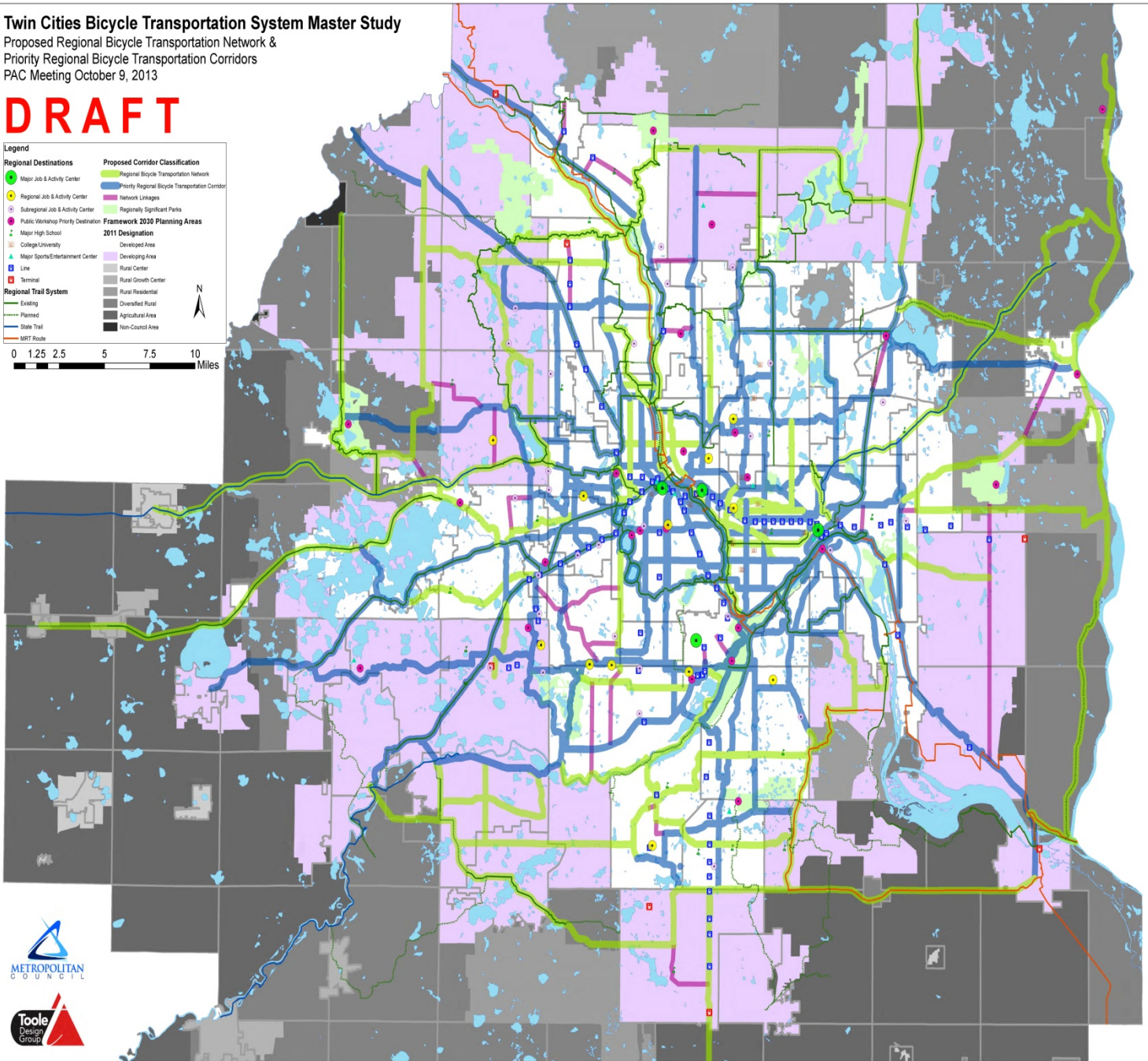
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**Legend**

<b>Regional Destinations</b>	<b>Proposed Corridor Classification</b>
● Major Job & Activity Center	Regional Bicycle Transportation Network
● Regional Job & Activity Center	Priority Regional Bicycle Transportation Corridor
● Subregional Job & Activity Center	Network Linkages
● Public Workshop Priority Destination	Regionally Significant Parks
● Major High School	<b>Framework 2030 Planning Areas</b>
● College/University	<b>2011 Designation</b>
● Major Sports/Entertainment Center	Developed Area
● Line	Rural Center
● Terminal	Rural Growth Center
<b>Regional Trail System</b>	Rural Residential
— Existing	Diversified Rural
— Planned	Agricultural Area
— State Trail	Non-Council Area
— MRT Route	

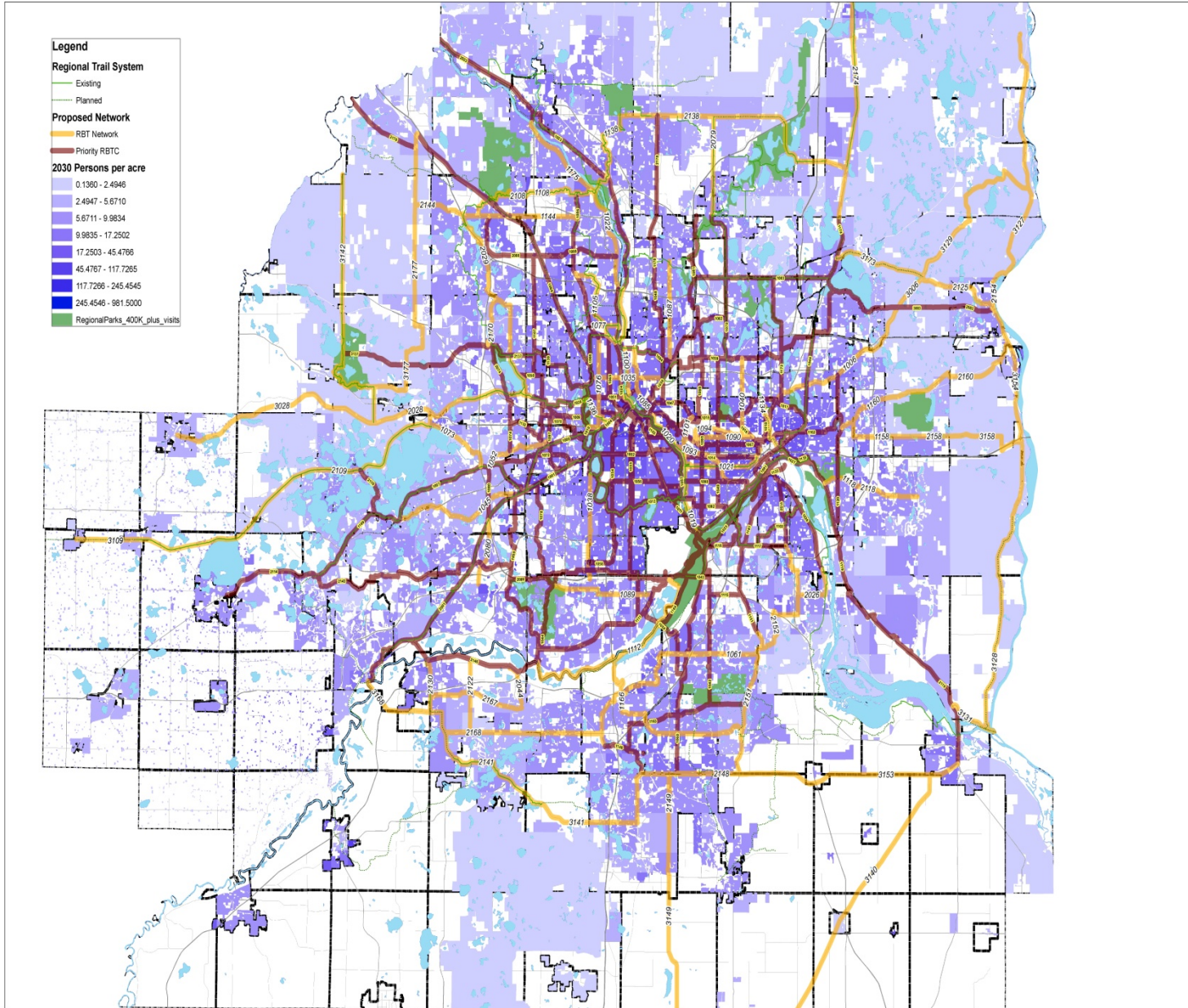
0 1.25 2.5 5 7.5 10 Miles



Draft  
Proposed  
Regional  
Bicycle  
Corridors and Trans.  
Network



METROPOLITAN  
COUNCIL



# Regional Corridors vs. 2030 Pop. Density

# Next Steps

## Regional Bicycle System Study

### Public Workshops

- Saint Paul: Oct. 23<sup>rd</sup>, 6:30 – 8:00 pm at Hallie Q. Brown Center
- Minneapolis: Oct. 24<sup>th</sup> 6:30 – 8:00 pm at U of M Urban Research and Outreach Center

### Final PAC meeting (November)

- Review study findings and recommendations

### Complete Final Study Report (late November)

# Next Steps

## Transportation Policy Plan Update

- Refine Regional Network/Priority Corridors (Dec. 2013 to Mar. 2014)
  - Seek input from counties/park agencies
- Develop/write draft Trans. Policy Plan update
- Release draft TPP for public review (summer 2014)
- Host numerous public workshops and other public engagement forums (summer/fall 2014)
- Met Council adopts 2040 TPP (late 2014)