

Regional Solicitation: Congestion Measure

Technical Advisory Committee
April 4, 2018



Regional Solicitation Criteria

- Roadway Expansion (80 points) & Roadway Reconstruction (65 points): Peak hour congestion on an adjacent parallel route
- Traffic Management Technologies (150 points): Peak hour congestion within the project area
- Expressed as the percent decrease in travel speed during the peak hour as compared to free-flow conditions

Quantifying Congestion

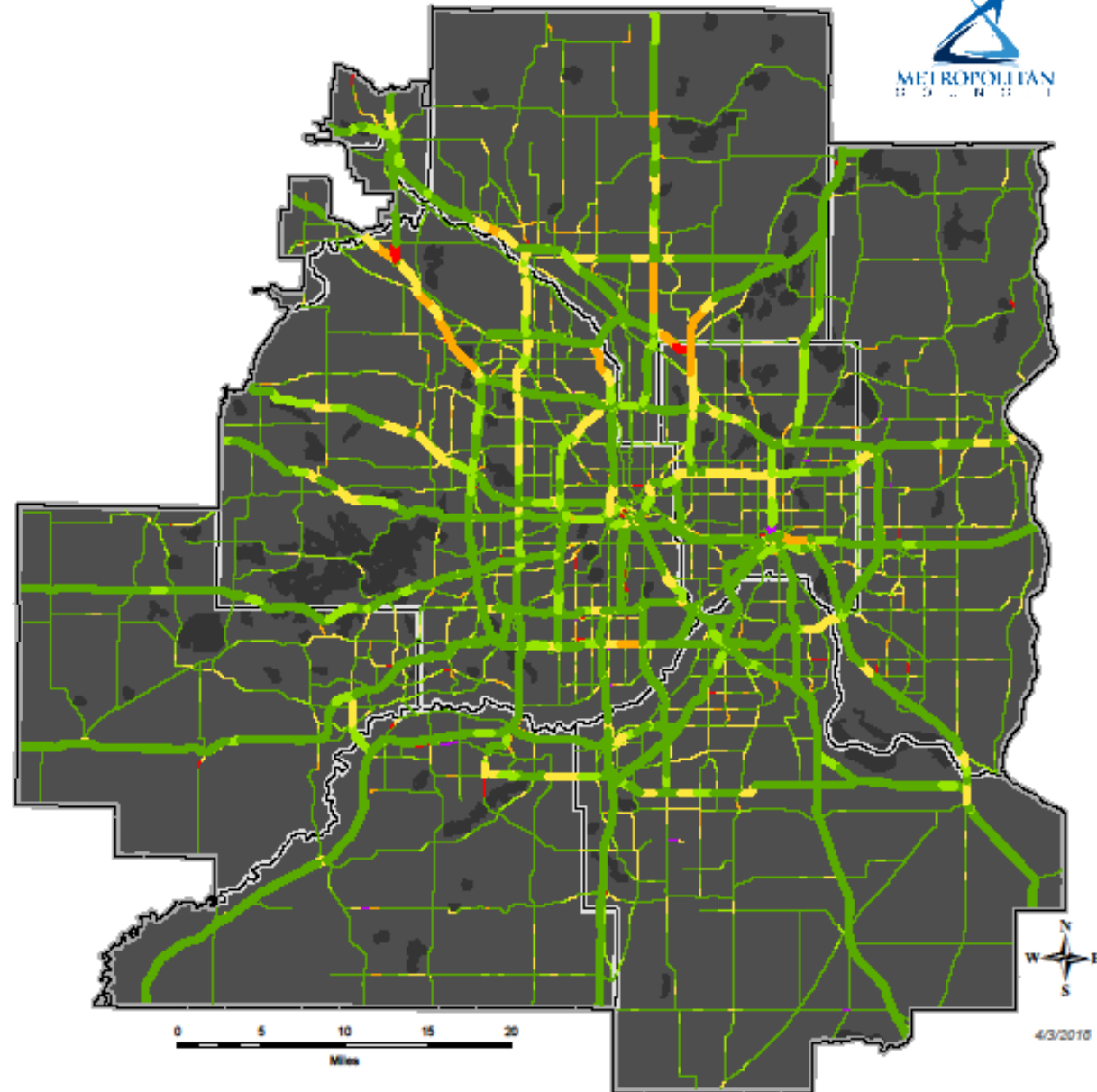
- Staff has quantified congestion for all principal and A-minor arterials for the Council's planning area
- Data derived from the StreetLight InSight application; represents conditions from July 2016 to June 2017
- The applicant will be provided a single number representing the percent decrease in travel speed in the peak hour as compared to the reference (free-flow) speed
- The application will identify the single hour with the highest level of congestion during the peak AM or peak PM time periods
 - 6:00 a.m. to 10:00 a.m.
 - 3:00 p.m. to 7:00 p.m.

**Map #1:
Twin Cities Arterial Corridor
6:00 - 7:00 AM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

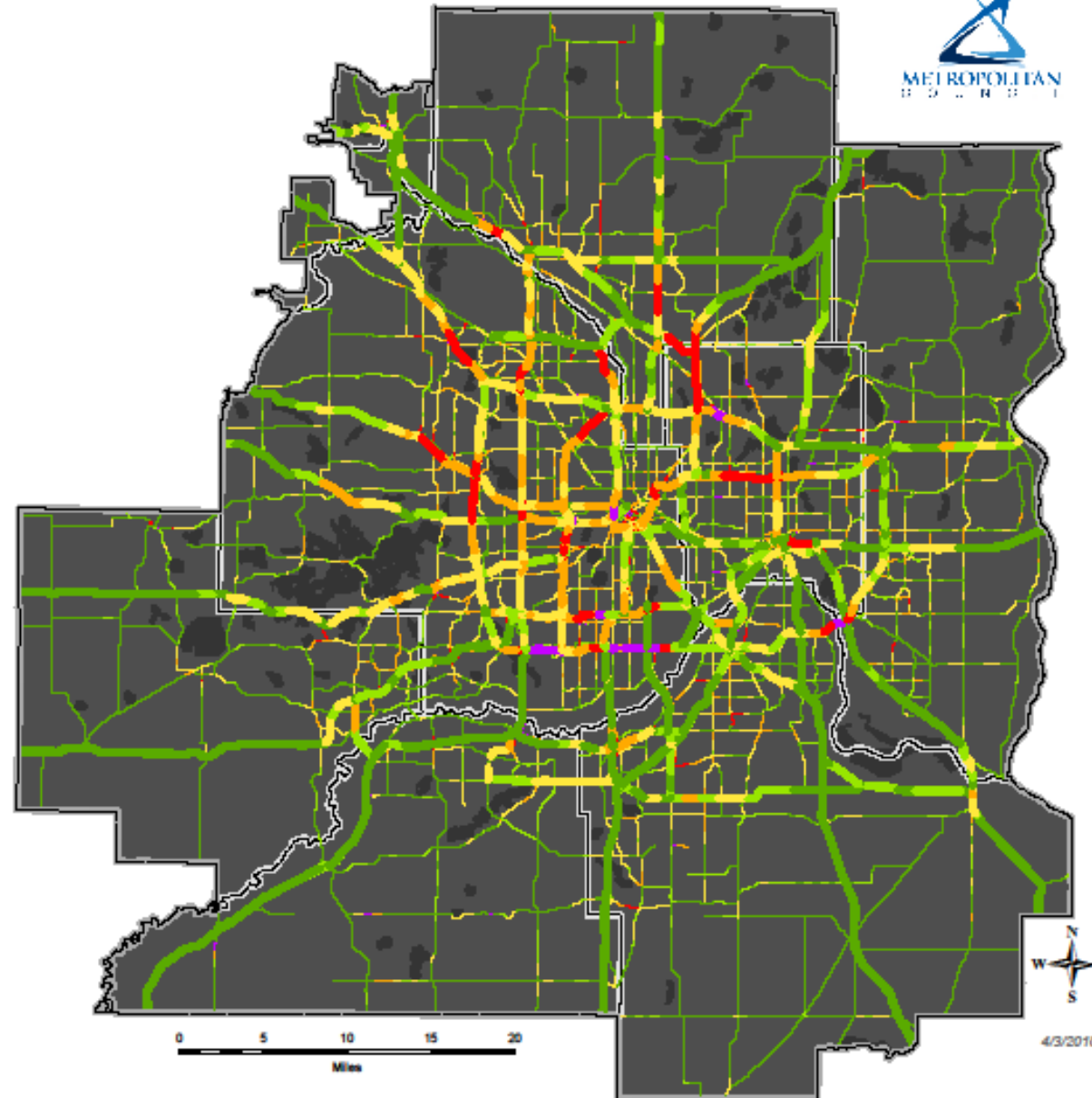


**Map #2:
Twin Cities Arterial Corridor
7:00 - 8:00 AM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

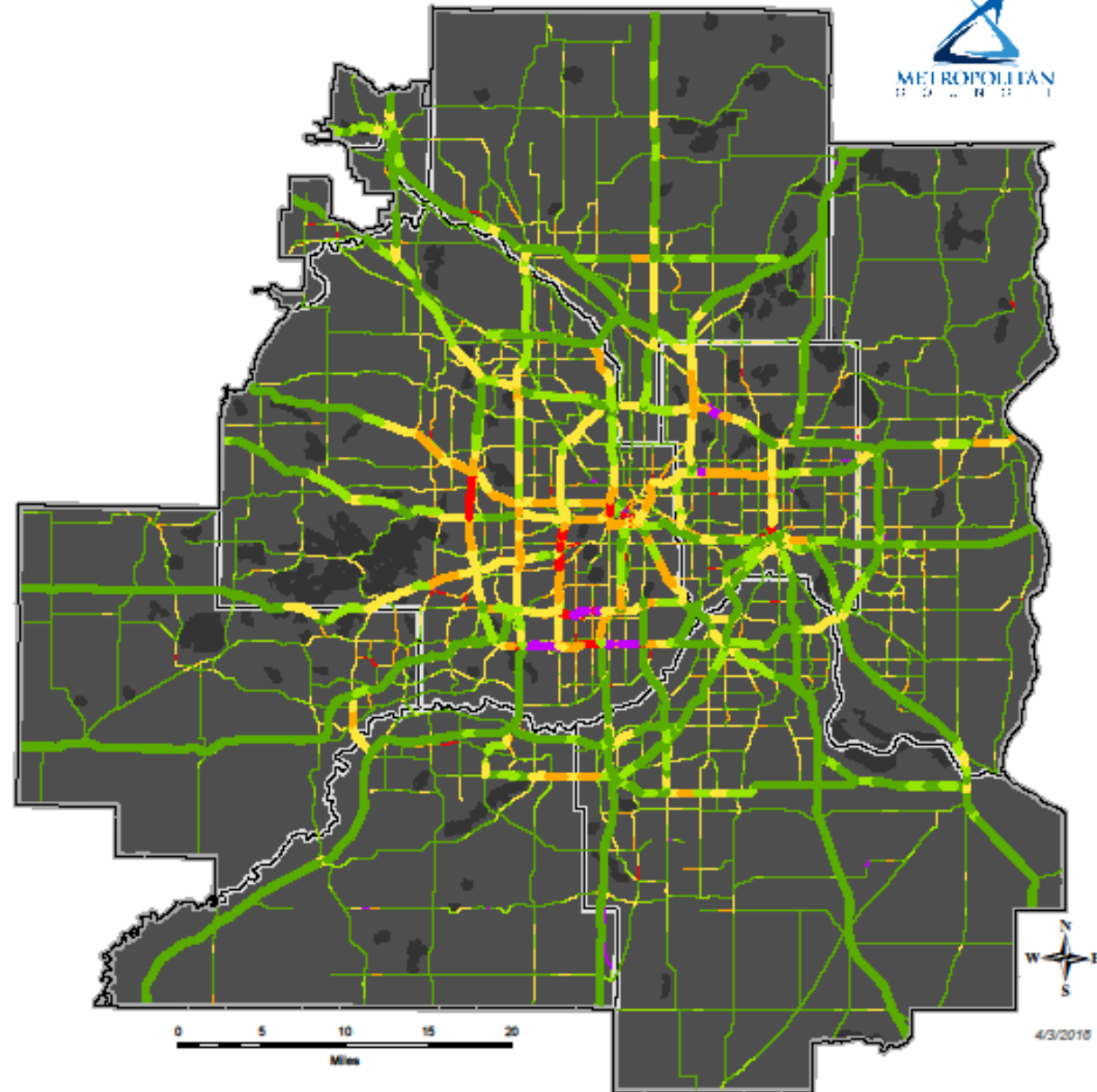


**Map #3:
Twin Cities Arterial Corridor
8:00 - 9:00 AM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



4/3/2018

Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

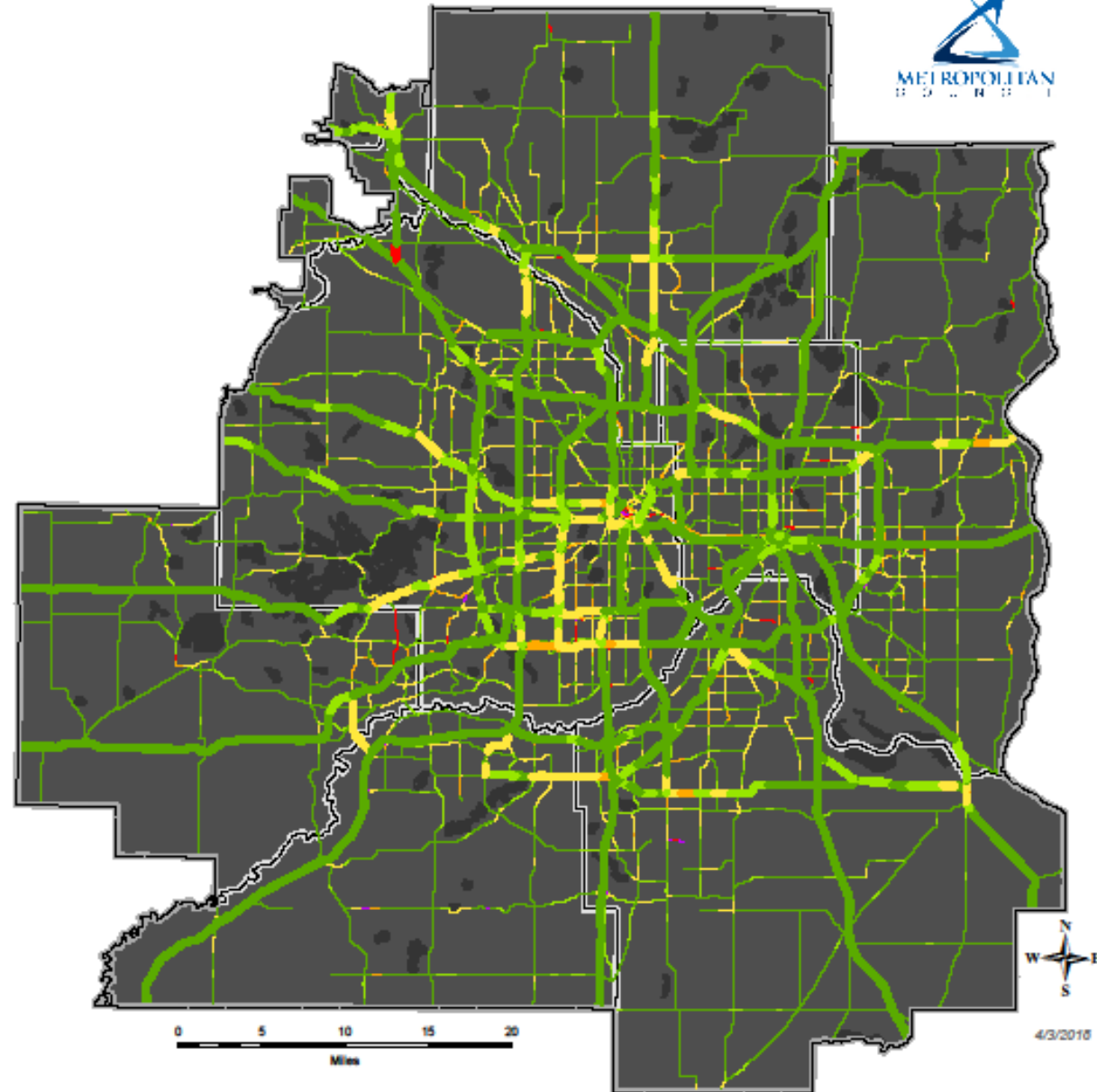


**Map #4:
Twin Cities Arterial Corridor
9:00 - 10:00 AM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

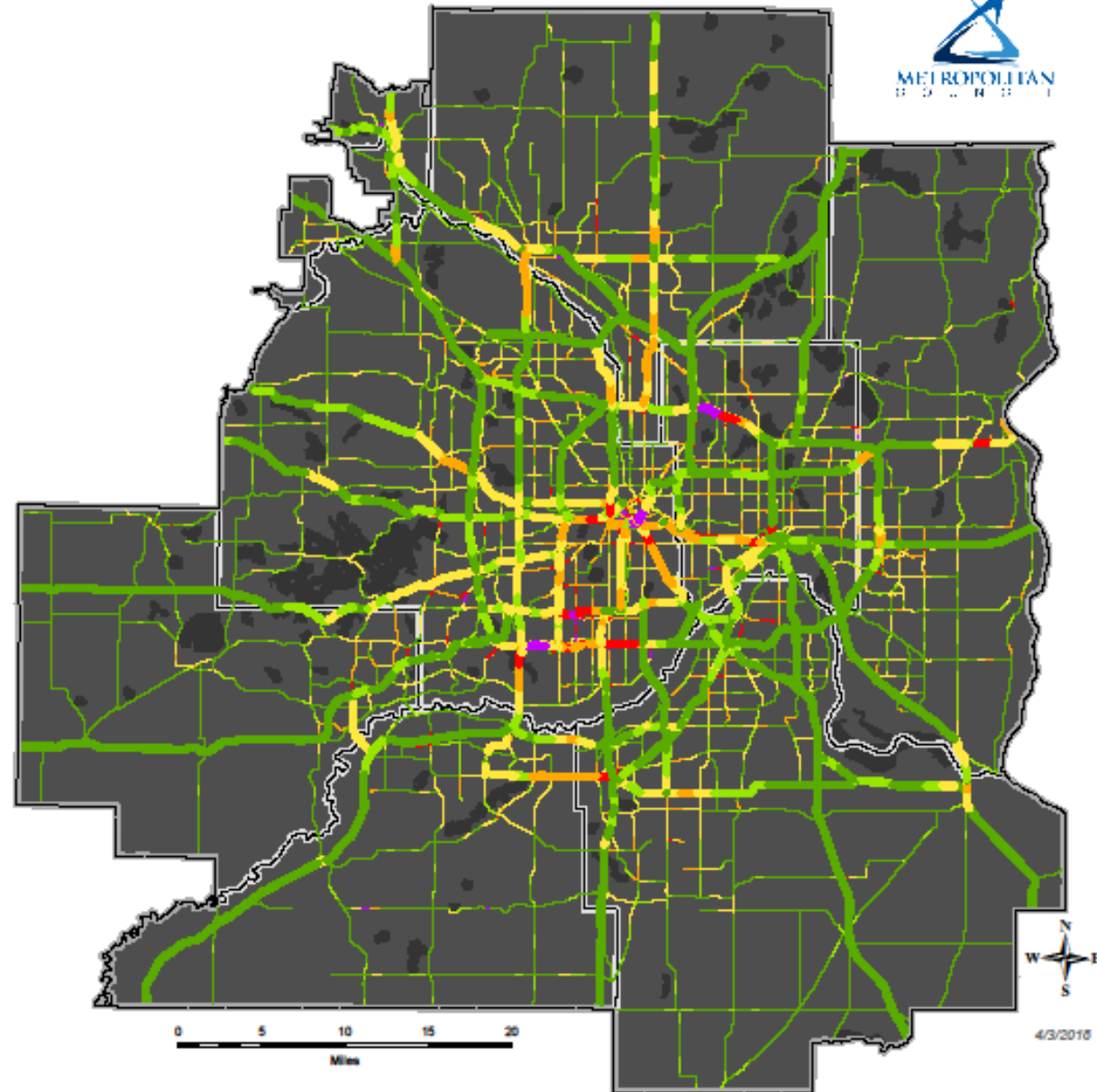


**Map #5:
Twin Cities Arterial Corridor
3:00 - 4:00 PM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

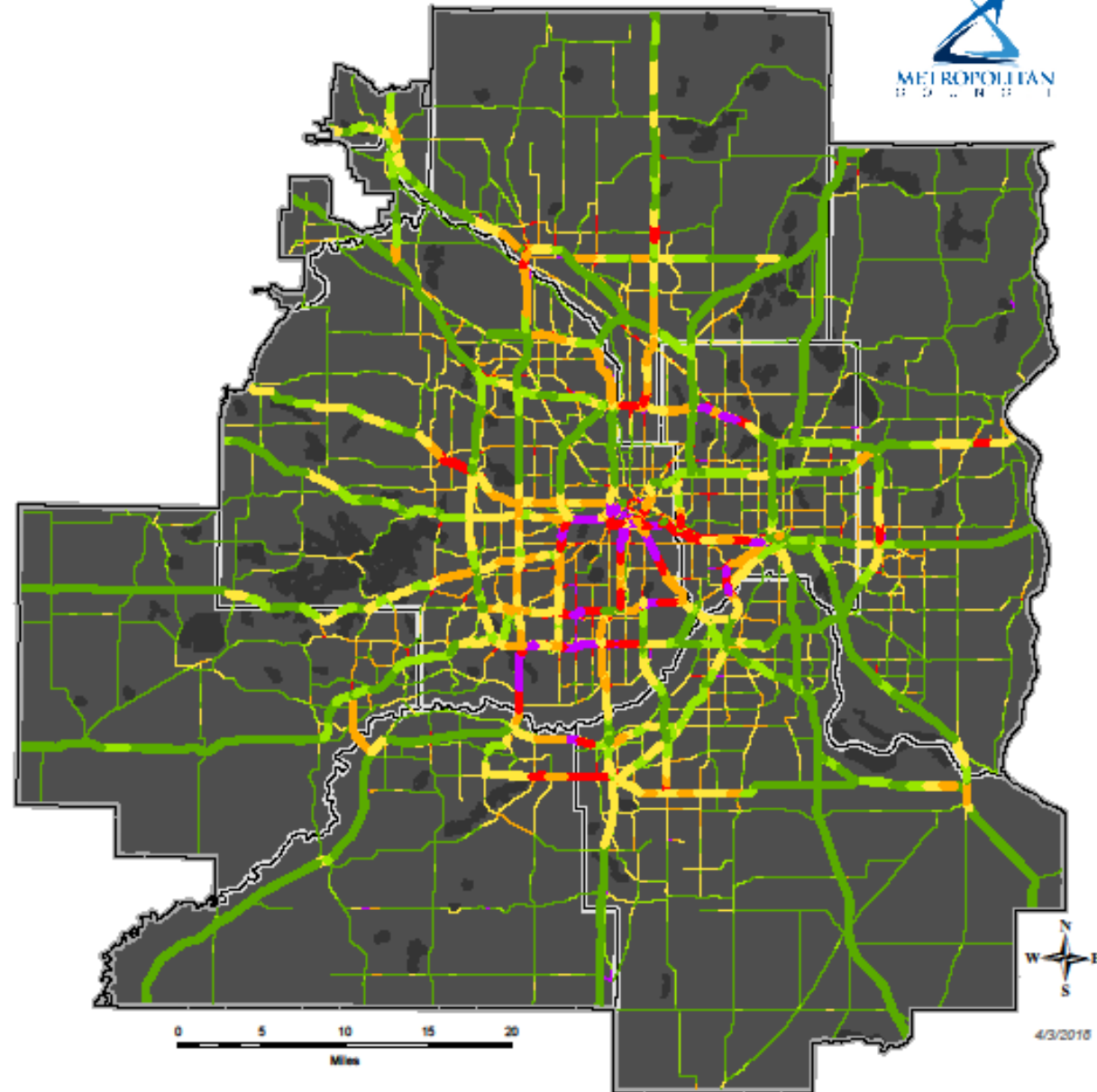


**Map #6:
Twin Cities Arterial Corridor
4:00 - 5:00 PM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

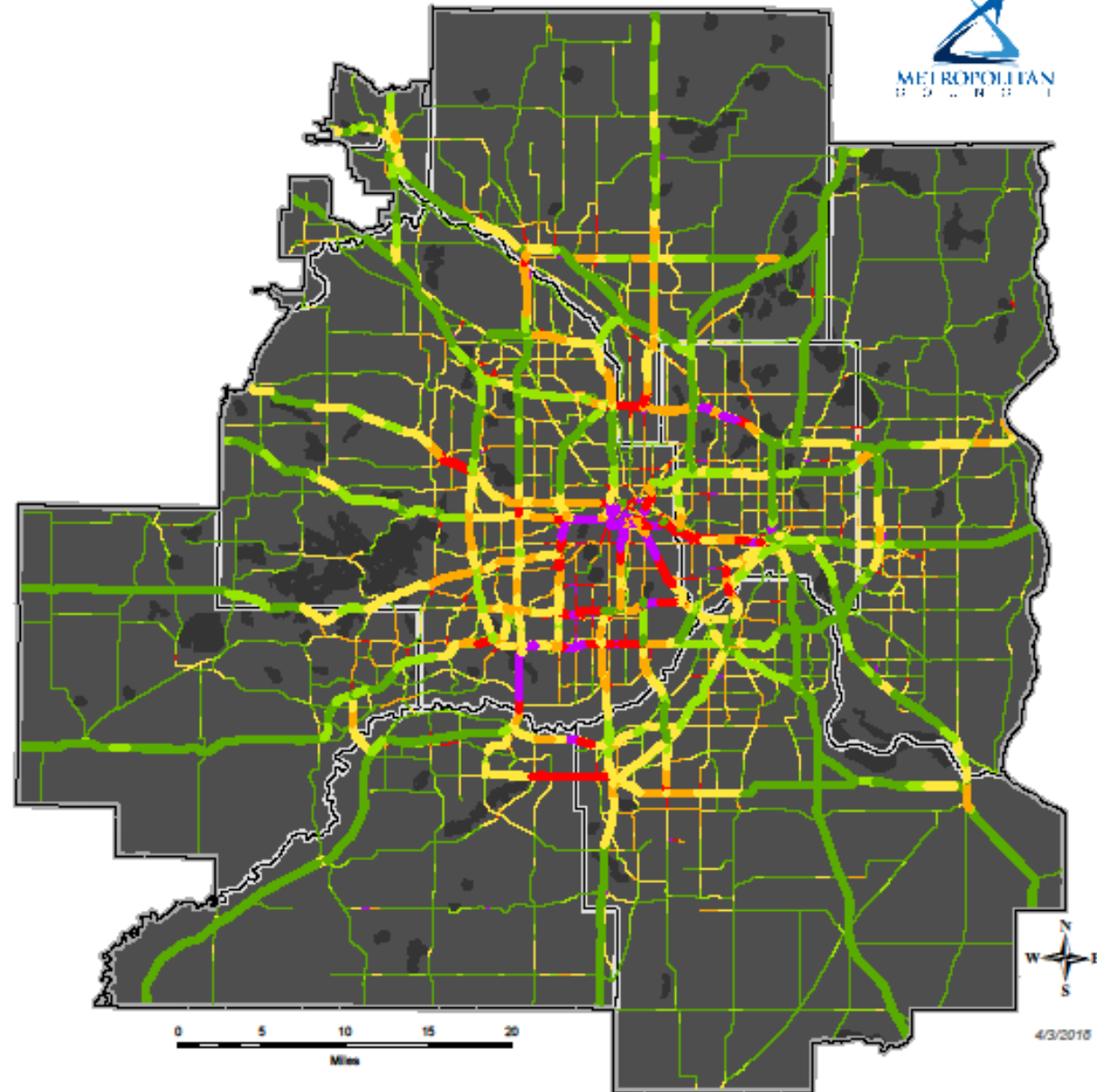


**Map #7:
Twin Cities Arterial Corridor
5:00 - 6:00 PM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

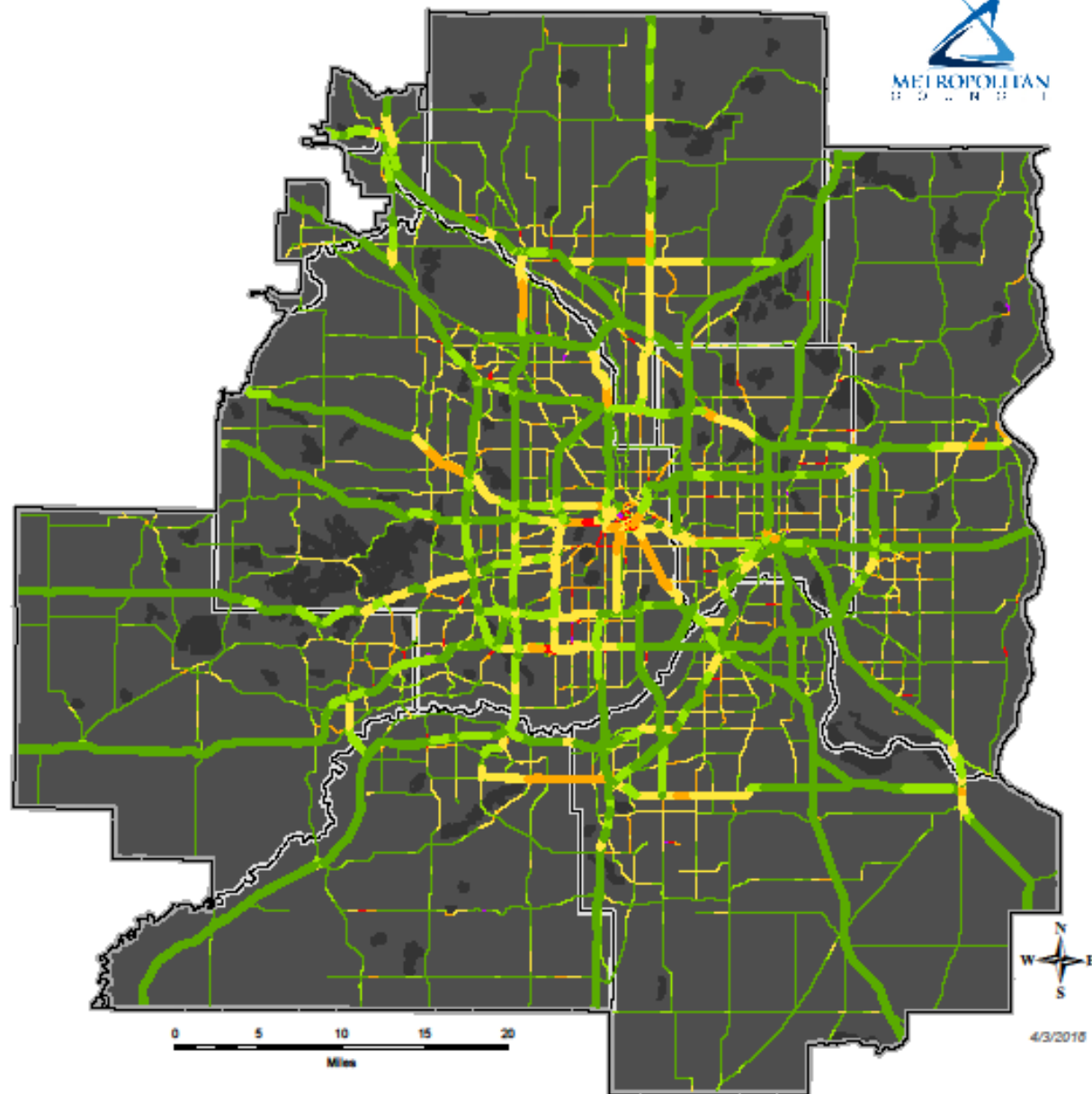


**Map #8:
Twin Cities Arterial Corridor
6:00 - 7:00 PM Congestion
Working Draft Map**



**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



4/3/2018

Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.

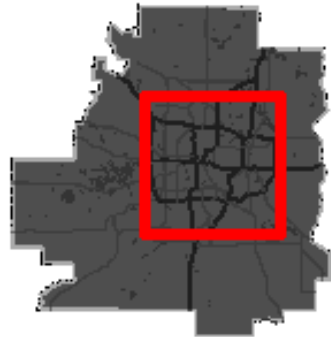
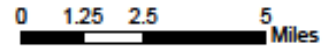
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.



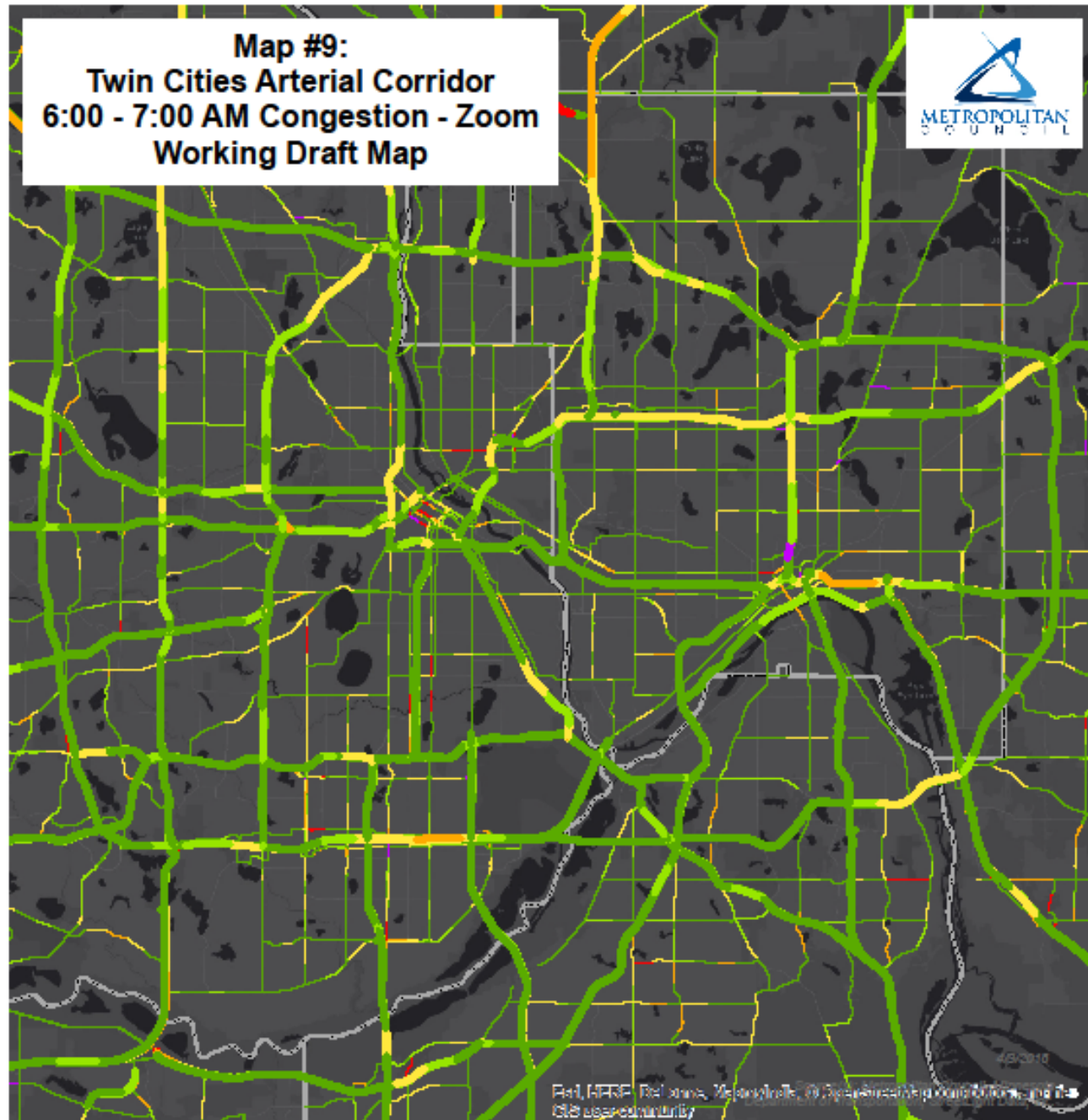
**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries



**Map #9:
Twin Cities Arterial Corridor
6:00 - 7:00 AM Congestion - Zoom
Working Draft Map**



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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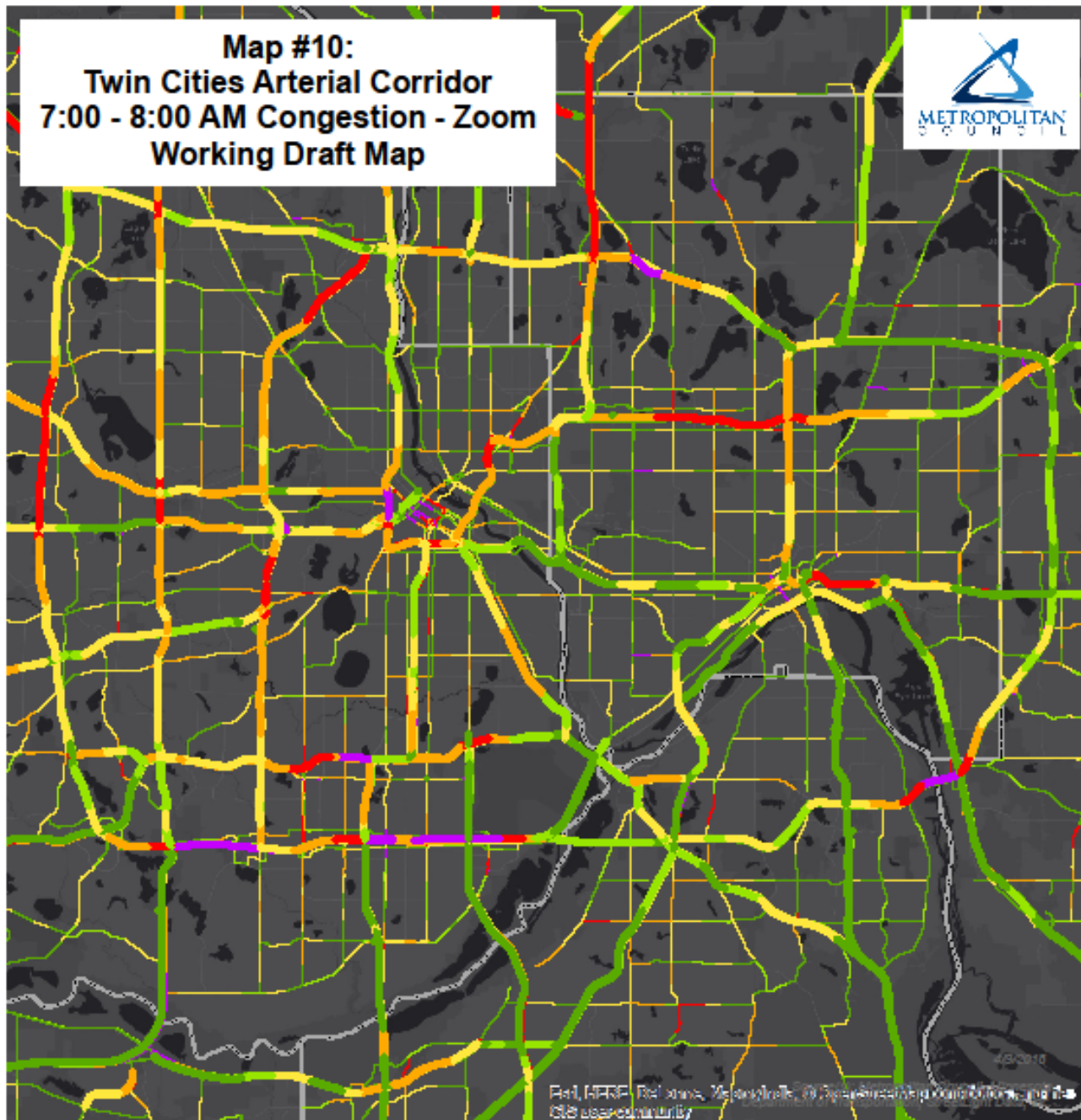
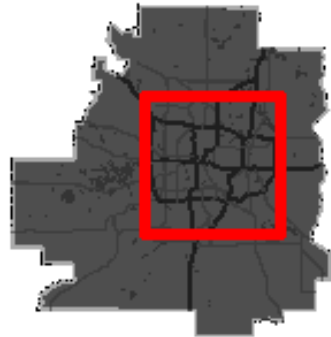


**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries

0 1.25 2.5 5 Miles



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

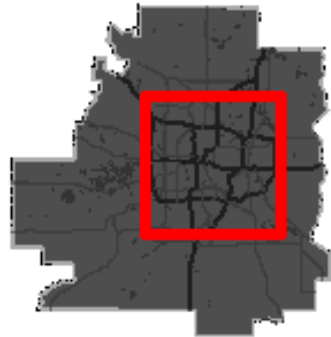
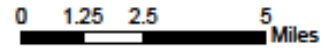
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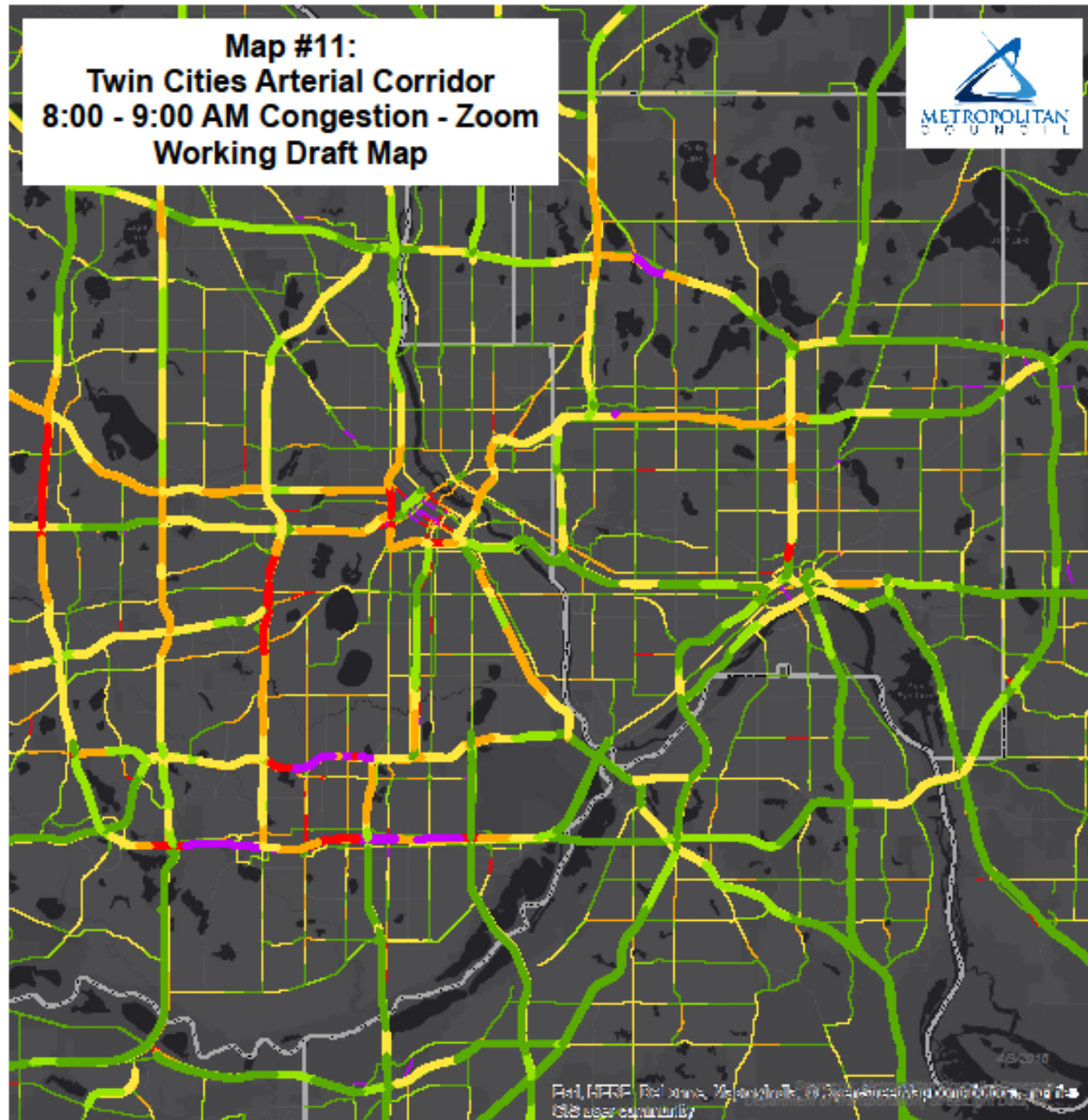
**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries



**Map #11:
Twin Cities Arterial Corridor
8:00 - 9:00 AM Congestion - Zoom
Working Draft Map**



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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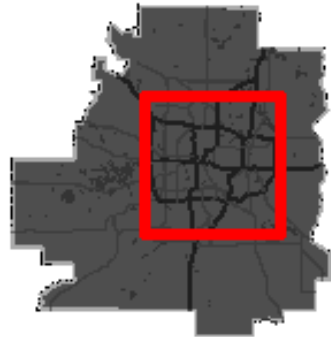


**Hour Speed
Percent of Reference Speed***

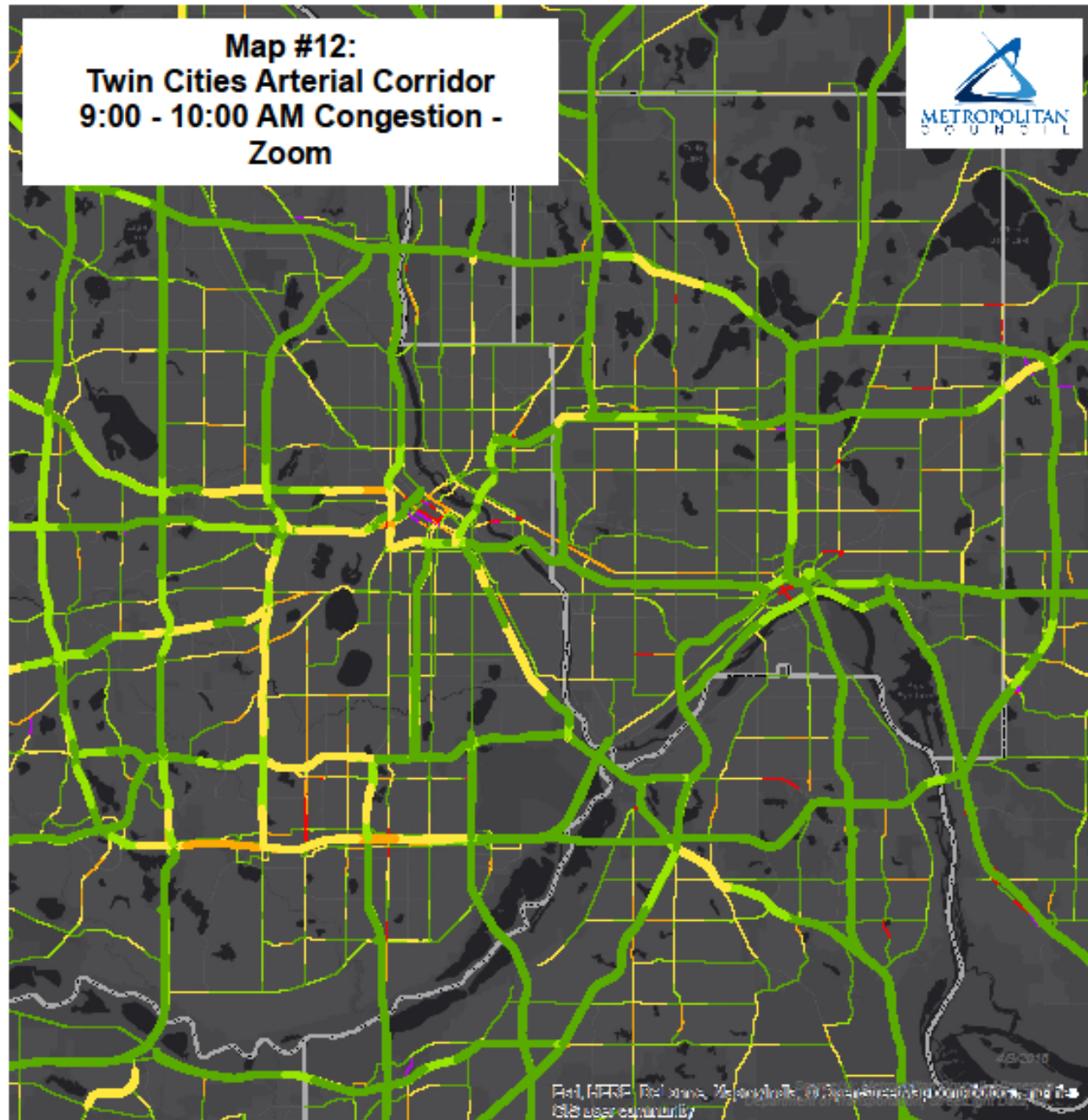
- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries

0 1.25 2.5 5 Miles



**Map #12:
Twin Cities Arterial Corridor
9:00 - 10:00 AM Congestion -
Zoom**




Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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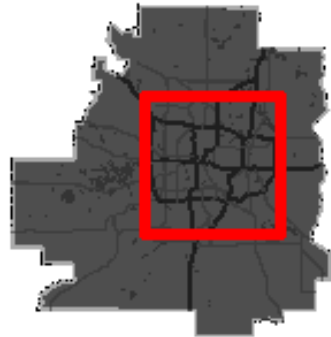


**Hour Speed
Percent of Reference Speed***

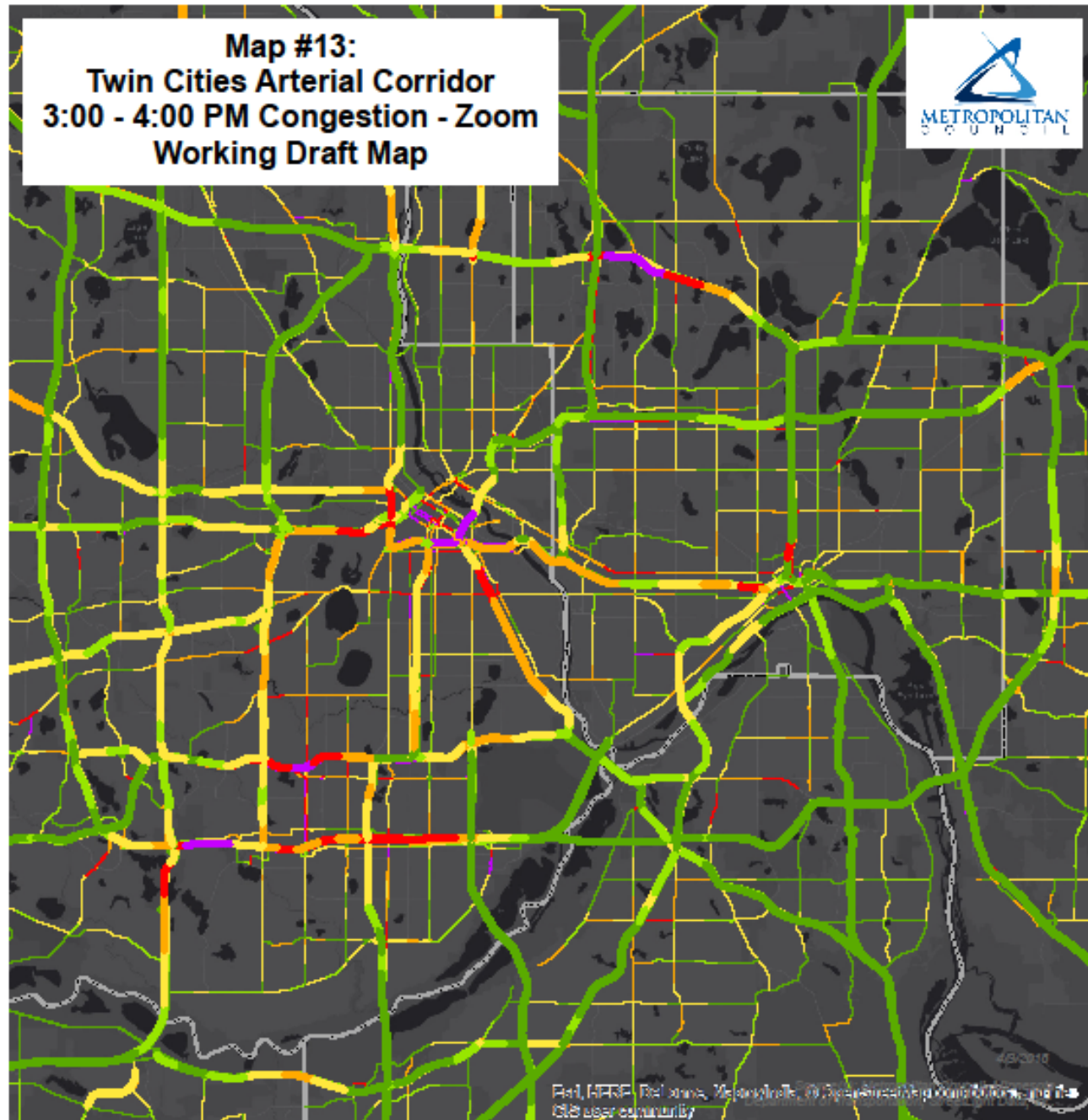
- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

 County Boundaries

0 1.25 2.5 5 Miles



**Map #13:
Twin Cities Arterial Corridor
3:00 - 4:00 PM Congestion - Zoom
Working Draft Map**




Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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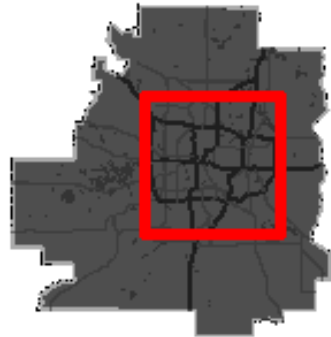


**Hour Speed
Percent of Reference Speed***

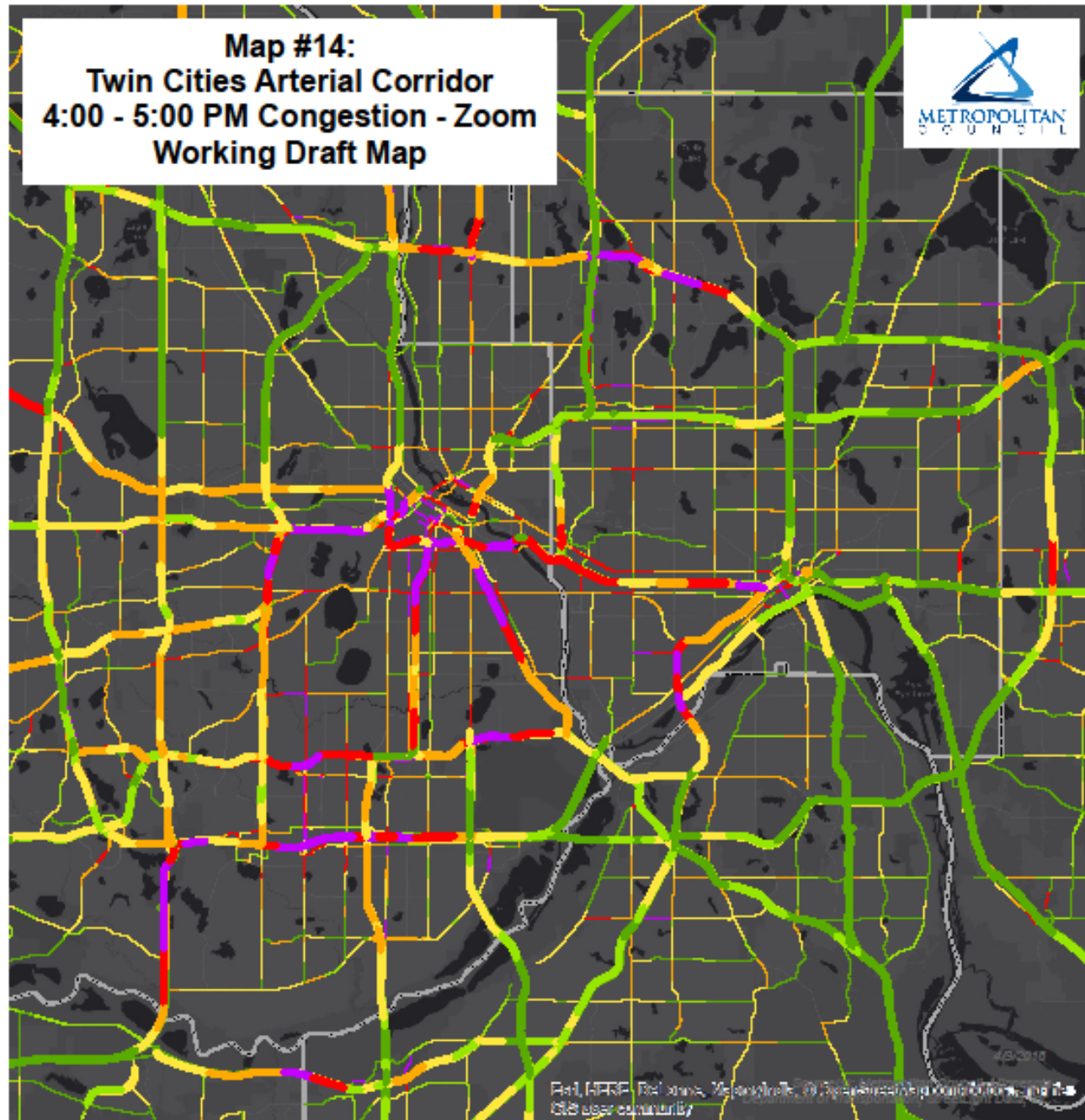
- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

 County Boundaries

0 1.25 2.5 5 Miles



**Map #14:
Twin Cities Arterial Corridor
4:00 - 5:00 PM Congestion - Zoom
Working Draft Map**



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.

Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

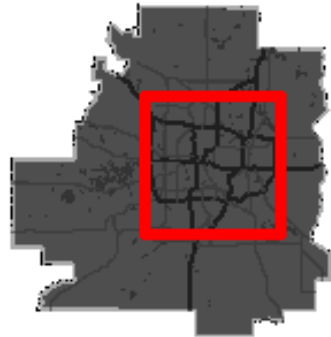
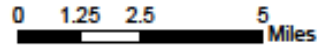
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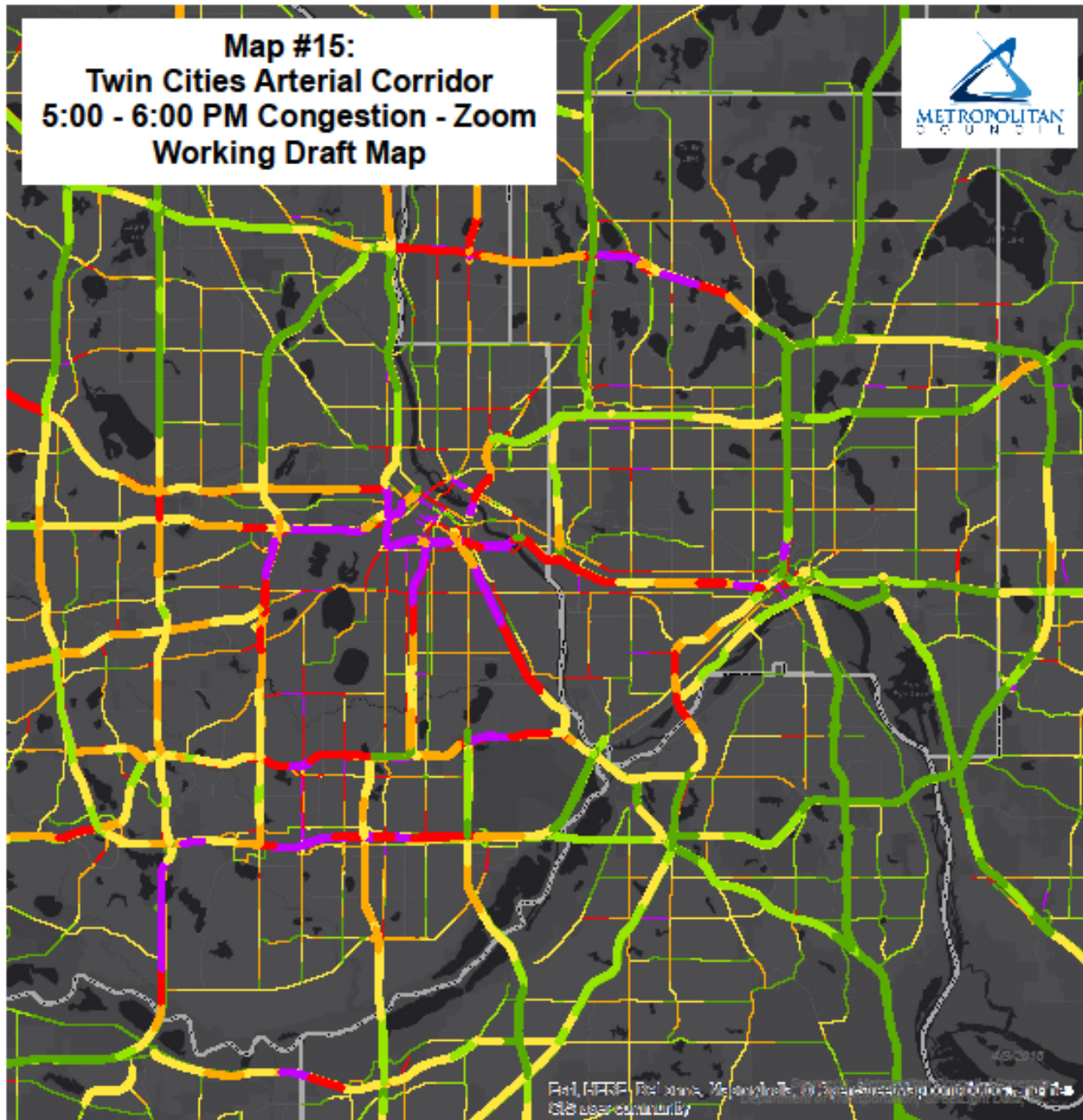
**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries



**Map #15:
Twin Cities Arterial Corridor
5:00 - 6:00 PM Congestion - Zoom
Working Draft Map**



Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.
Data reflects observations collected from July 2016 to June 2017.
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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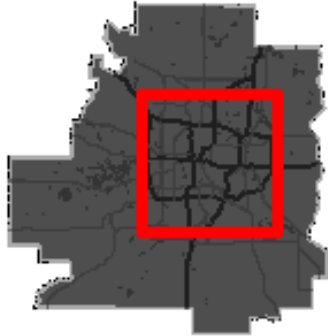


**Hour Speed
Percent of Reference Speed***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries

0 1.25 2.5 5 Miles

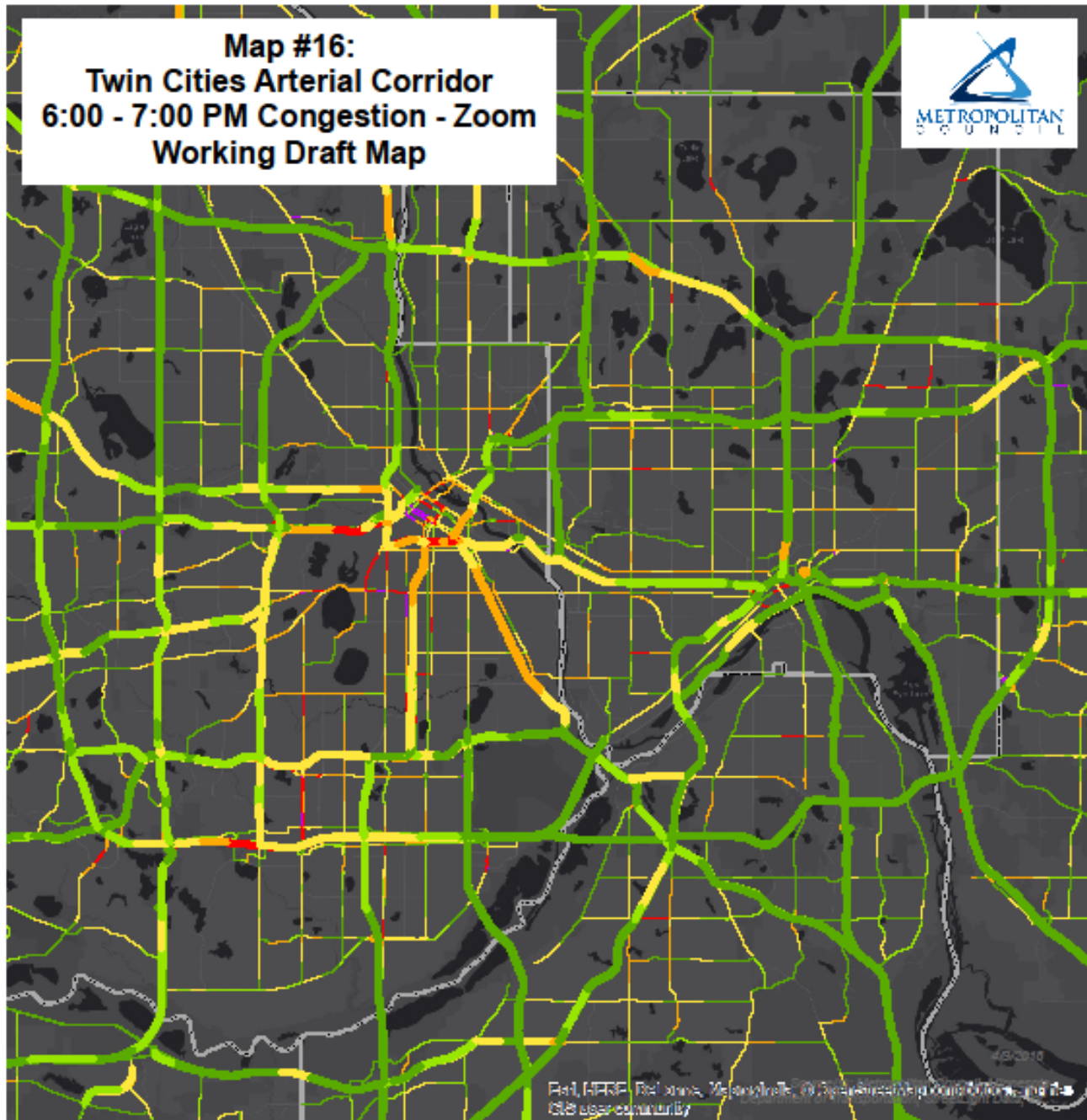


Notes:
*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.

Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

**Map #16:
Twin Cities Arterial Corridor
6:00 - 7:00 PM Congestion - Zoom
Working Draft Map**



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Regional Solicitation Online Application

- Users will be able to access an online application featuring a map with the peak-hour congestion score along all parallel routes
- This score will represent the “percentage decrease in travel speed in peak hour compared to free-flow”
- Applicants will no longer need to input the free-flow or peak hour travel speeds – these will be shown on the web application



METROPOLITAN
C O U N C I L

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