# 2040 Transportation Policy Plan Update Modal Investment Chapters 5-9



### **Modal Chapters Overview of Changes**

- Chapter 5 Highway Investment Direction and Plan
- Chapter 6 Transit Investment Direction and Plan
- Chapter 7 Bicycle and Pedestrian Investment Direction
- Chapter 8 Freight Investment Direction
- Chapter 9 Aviation Investment Direction and Plan



# **Chapter 5 Highways**



#### **Highways Investment Prioritization Factors**

- Safety and security
- Operate, maintain and rebuild
- Improve critical system connectivity
- Improve travel time reliability and provide options in congested corridors
- Support growth and local comprehensive plans
- Regional balance of investments



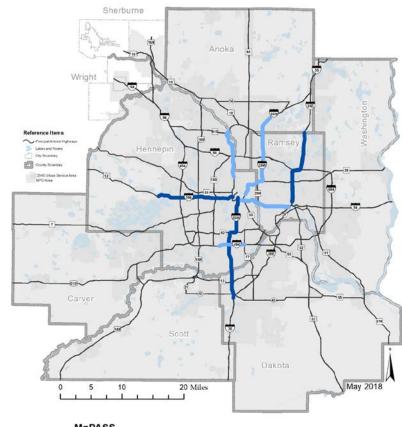
#### **Highways Investment Direction**

- Operate, maintain & rebuild the existing system catalyst to address other needs (safety, mobility, freight, bike, pedestrian, etc.)
- Mitigate congestion
  - Traffic management technologies
  - Spot mobility improvements
  - MnPASS
  - Strategic capacity enhancements
- Consider lower cost/higher return projects that address most of the problems for a fraction of the cost of high-cost projects that try to eliminate all problems
- Focus on today's problems, utilize existing infrastructure and ROW
- Coordinate regional and local projects



#### **Current Revenue Scenario Highways** Investments

- I-94 Minneapolis to St. Paul MnPASS (ReThinking I-94)
- I-35W NE Gateway MnPASS
- MN 252/I-94 freeway conversion and MnPASS
- I-494 MnPASS
- Spot mobility, strategic capacity (not shown)



#### MnPASS

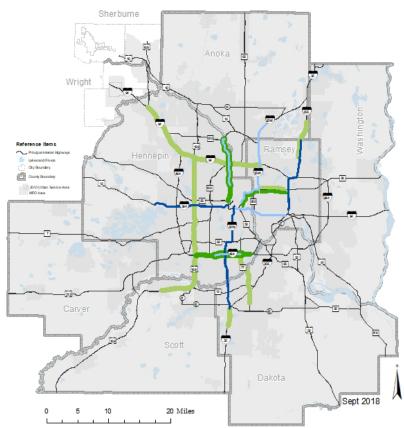
Existing / Under Construction

Tier 1 Current Revenue Scenario



# Increased Revenue Scenario Highways Investments

- Operations and maintenance
- Rebuild and replace
- Safety
- Regional mobility
  - Traffic management technologies
  - MnPASS
  - Principal Arterial Interchange Conversion Study
  - Freeway System Interchange Study
- Multimodal



#### **Highways – Expected Changes**

- Projects from 2018 Regional Solicitation, Counties, etc.
- Future to past tense, removed constructed projects, etc.
- Congestion free -> less congested, more reliable
- Freeway System Interchange Study results
  - < \$10m & < 4-year return period in Current Revenue Scenario</p>
  - Remaining in Increased Revenue Scenario
- Pavement and safety, measures and targets
- Regional significant definition added
- Population and VMT estimates/forecasts
- Nearly all maps



### **Highways – Work Program Items**

- Congestion Management Process Plan
- Highways Performance Measures and Funding Decisions
- Assessment of Regional Congestion Mitigation Philosophy (new)
- Regional Solicitation Projects Before and After Analysis
- Connected and Autonomous Vehicles
- Electric Vehicles Planning Study



#### **Questions?**

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# **Chapter 6 Transit**



#### **Current Transit Policies in the TPP**

- Transit Investment Direction and Plan (Transit Chapter)
- Regional Transit Design Guidelines and Performance Standards (Appendix G)
- 4-Year Work Program for Regional Planning Studies (Work Program Chapter)
- Financial Summary of Transit Investment Plan (Finance Chapter)
- Local Government Land Use Policies Supporting Transit (Land Use Chapter)



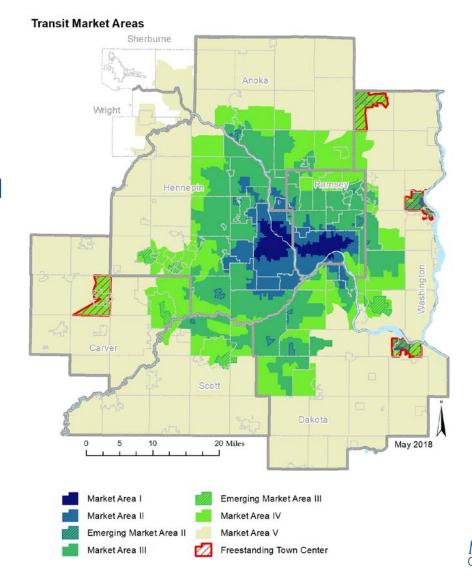
#### **Transit Investment Direction**

- Able to maintain existing bus system provided:
  - Regular fare increases to maintain fare recovery ratio
  - Motor vehicle sales tax (MVST) continues to grow with inflation
  - Ongoing state general funds and regional transit bonding authority provided by Legislature
  - Federal formula funding grows moderately
- Regional Solicitation Funds:
  - Provide very limited expansion funding for bus system and arterial bus rapid transit funding
- Transitway capital funding provided through:
  - New/Small Starts Federal competitive grants
  - County sales tax provides majority of local funding share
  - County Regional Railroad Authority funding



#### **Transit Investment Direction (cont.)**

- Bus and Support System Direction provides overall transit policies for:
  - Transit service opportunities and expectations (Transit Market Areas and Appendix G)
  - Regional Solicitation
  - Service Improvement Plans
  - Service performance monitoring





#### **Transit Investment Direction (cont.)**

- Transitway Direction provides policies for:
  - Definitions of transitway modes
  - Transitway prioritization factors, corridor and system planning considerations
  - List of funded transitway investments
  - List of potential transitway investments (unfunded)





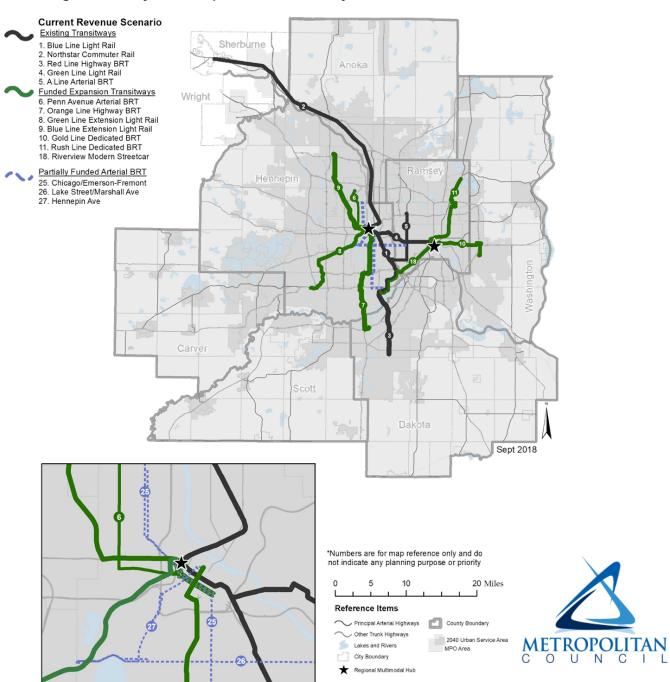
# Transit Design Guidelines & Performance Standards

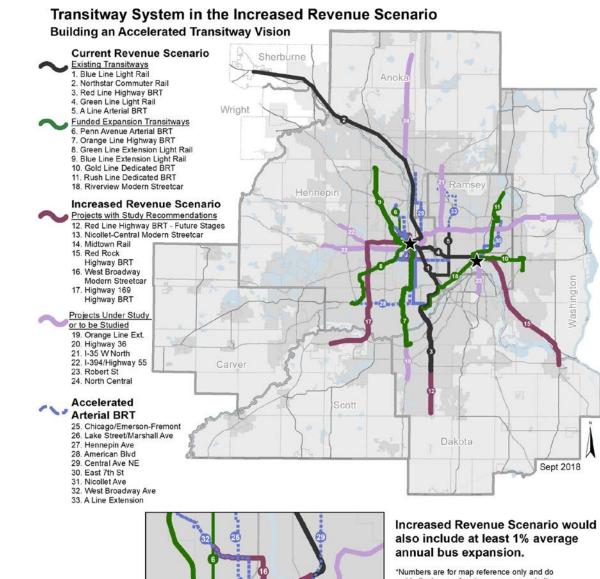
- Appendix G
  - Defines Route Types and Transit Market Areas
  - Transit Design Guidelines
    - Stop Spacing
    - Route Spacing
    - Span of Service
    - Minimum Frequency
    - Accessibility
    - Facility Amenities
  - Transit Performance Standards
    - Productivity Passengers per in Service Hour
    - Cost Effectiveness Subsidy per Passenger

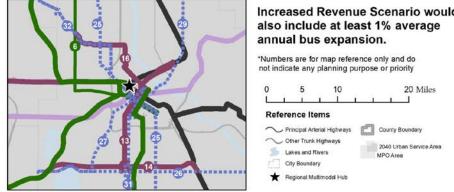
Route Type	Weekday Peak	Weekday Midday	Weekday Evening	Weekday Owl	Weekend Saturday	Weekend Sunday
Core Local Bus*	•	•	•	0	•	•
Supporting Local Bus	•	•	•	0	•	•
Suburban Local Bus	•	•	•	0	0	0
Arterial BRT	•	•	•	0	•	•
Highway BRT	•	•	•	0	•	•
Light Rail	•	•	•	0	•	•
Commuter Express Bus	•	0	0	0	0	0
Commuter Rail	•	0	0	0	0	0



#### **Existing Transitways and Expansion Transitways**







#### **Transit – Expected Changes**

- Updating known information about existing system, recent improvements
- Park-and-ride system and text updates, as needed (e.g. Gold Line impacts)
- Updated discussion of transit advantages (e.g. bus lane pilots)
- Updated 2020 Regional Solicitation discussions
- Updated statuses of:
  - Shared mobility, emerging technology, and microtransit
  - Electric buses
  - Metro Mobility
- Updated discussions of Work Program in chapter



### **Transit – Expected Changes**

- Transitway status updates and changes
  - C Line, Red Line Stage 2 completed
  - Incorporate amendments for planned Riverview and Gold Line
  - D Line (Chicago-Fremont) assume fully funded in plan
  - E Line alignment updated (still partially funded)
  - I-94 West added to Increased Revenue Scenario
  - Minor updates to status of others
- Financial plan updates still a work in progress



### **Transit – Work Program**

- Comprehensive Transit Finance Report
- Bus Service Allocation Study
- Network Next
  - Local Bus Speed and Reliability Improvements
  - Arterial Bus Rapid Transit Network Update
- Downtown Transit Capacity and Transit Advantages Analysis
- Microtransit and Shared Mobility Access to Transit (New)
- Mobility Hub Planning Guide (New)



# Transit Work Program – Shared Mobility/Microtransit

- TPP has yet to define role for Shared Mobility and Microtransit in the region; policy limited to defining them as potential alternative to fixed route transit
- Need for policies and strategies to define how Shared Mobility and Microtransit can help achieve regional goals
- Work program item is purposefully open-ended to allow for further definition in an area of fast-evolving strategies



# Transit Work Program – Mobility Hub Planning Guide

- Develop a planning guide for places where travelers can easily access to connect among multiple transportation options (including shared mobility)
- Mobility hub designs and implementation options that fit various land use contexts, but provide consistent user experience
- Analysis of land use and transportation contexts for areas that best suit mobility hub implementation



#### **Transit Feedback for 2050 TPP Update**

- Significant Review of Appendix G
  - Consider recommendations from Service Allocation Study
  - Transit design guidelines
  - Service performance standards
- Further definition of role of emerging modes (e.g. microtransit)
- Provide further clarification on how local land use planning decisions can affect transit investments



#### **Questions?**

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## **Chapter 7 Bicycle and Pedestrian**



#### **Bicycle Policy/Investment Direction**

- Regional Bicycle Transportation Network (RBTN)
  - A regionally prioritized bikeway network integrating on-street bikeways and offstreet/street-adjacent trails that connect to and between regional destinations
  - Established in 2014 TPP Update as regional transportation network vision, setting region's priorities for bikeway planning and investment
  - Based on data-driven analysis of regional bicycle corridors in Regional Bicycle System Study
  - Applied as prioritizing criterion in Regional Solicitation since 2014



#### **Bicycle Policy/Investment Direction**

- Major River Bicycle Barriers/Regional Bicycle Barriers
  - Established in 2018 TPP Update as regional priorities
  - Developed through Regional Bicycle Barriers Study
  - Incorporated in 2020 Regional Solicitation as prioritizing criteria



### **Bicycle – Expected Changes**

- Updates to Regional Bicycle Transportation Network (RBTN)
  - Include administrative changes accepted for Regional Solicitation
  - Include planned Gold Line BRT bikeway accepted by TAB
  - Adding section "Updating the RBTN" to
    - Acknowledge new process will allow for more significant updates to RBTN elements aligned w/Regional Solicitation 2-year cycle
    - Describe need for RBTN Bikeway Facility Guidelines and Measures Study



## **Bicycle – Expected Changes**

- Incorporate results of Technical Addendum Update to Regional Bicycle Barriers Study (RBBS)
  - Updating Figure 7-3, Regional Bicycle Barriers map
  - Replacing Figure 7-4, Example Sub-regional Map of Regional Barrier Crossing Improvement Areas with:
    - Regional Barrier Crossing Improvement Areas: Freeways & Expressways
    - Regional Barrier Crossing Improvement Areas: Railroads & Streams



#### **Bicycle – Expected Changes**

- Updating Table 7-2, RBTN Implementation Status to reflect latest additions and modifications
- Updating Table 7-5, Regional Solicitation Project Funding Summary with 2018 Solicitation values
- Adding text to acknowledge need for increasing opportunities for more collaboration in bicycle transportation and regional trails planning, consistent with Regional Parks Policy Plan



## Bicycle & Pedestrian – Investment Direction

- Other Investment Factors Used in Regional Solicitation (Bicycle & Pedestrian)
  - Opportunities for pedestrian improvements, especially connecting to transit, job concentrations, or improving accessibility for people with disabilities
  - Cost effectiveness
  - Continuity & connections between jurisdictions
  - Safety
  - Multimodal projects
  - Bike connections to transit
  - Reconstruction of existing facilities



#### **Pedestrians – Expected Changes**

- Updates to data for both modes (crash data and counts)
- Added references to work done in region since the 2018 TPP
  - MnDOT Pedestrian and Bicyclist Data Program Statewide taskforce, strategic plan
  - Strategic Highway Safety Plan and Vision Zero work in the region
  - Safe Routes to School



# Bicycle and Pedestrian – Work Program Items

- Regional Bicycle System Inventory Update
- RBTN Bikeway Facility Guidelines and Measures Study
- Regional Bicycle and Pedestrian Count Program
- Regional Sidewalk Inventory Development
- Pedestrian Safety Action Plan



### Bicycle – Work Program Items

- Regional Bicycle System Inventory Update
  - First compiled in 2016 in collaboration with 7 counties
  - Primary attributes compiled include existing and planned, on-street and off-street facilities
  - Purpose is to assist in regional and cross-jurisdictional network planning
  - Update to incorporate:
    - New agency bicycle plan networks
    - More current data on facility type throughout region
  - Process will be developed for coordinating regular updates



### Bicycle – Work Program Items

- RBTN Bikeway Facility Guidelines and Measures Study two primary purposes:
  - Provide recommendations for preferred facility types on RBTN alignments in urban, suburban areas and in rural areas hosting RBTN
  - Develop recommended guidelines for applying quantifiable measures when evaluating requests for new or re-aligned RBTN corridors and alignments



#### **Questions?**

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# **Chapter 8 Freight**



### Freight Policy/Investment Direction

- Regional Truck Freight Corridors
  - Prioritized segments of Principal and Minor Arterials
  - Based on truck usage and land use factors
    - HCAADTs
    - Truck % of total traffic
    - Proximity to freight clusters (business establishment data-based from 4 freight-generating economic sectors)
    - Proximity to regional freight terminals (i.e., TPP Metropolitan Freight System)
  - Regional Truck Corridors designated as regional priorities and have been incorporated into Regional Solicitation (priority criterion) and MnDOT-administered Federal Highway Freight Program (qualifying criterion)



### Freight – Expected Changes

- Adding text describing development of process to update Regional Truck Freight Corridors
  - States intention to develop process to apply new data that relates to original analysis factors from Regional Truck Highway Corridor Study
  - Process to be in place in time for 2022 Regional Solicitation
  - Will require updating Study analysis tool to allow for local data refinements and adjustments to local truck corridor segment scores
- Adding text describing intention to develop Industrial Land Atlas Mapping Tool
  - To make Industrial-Manufacturing Land Inventory database publicly available



## Freight – Work Program Items

- Industrial Land Atlas Mapping Tool
- Regional Truck Data Collection Framework



### Freight – Work Program Items

- Industrial Land Atlas Mapping Tool
  - Industrial land inventory compiled in 2017 as a Thrive MSP 2040 initiative
    - Determined supply of industrial/manufacturing-zoned land with freight rail and Mississippi River Waterway access
  - Industrial Land Atlas will be developed
    - On-line, interactive mapping tool
      - Facilitates identification/prioritization of industrial sites for development
      - Assists cities in identifying where land should be preserved for industrial uses



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# **Chapter 9 Aviation**



#### **Current Aviation Policies in the TPP**

- Safety and Security of the Regional Aviation System
- Maintain MSP as a Hub Airport
- Support growth of the Aviation system, while ensuring compatible land use with cities near airports.



### **Aviation – Expected Changes**

- Very few changes in the Aviation Chapter and Appendices
- MSP Long Term Comprehensive Plan (LTCP) is scheduled to be completed by the end of 2020.
- Minimal changes to the planned projects at other regional airports.
- Potential administrative amendments in 2021 for:
  - Crystal Airport Project
  - Airlake Airport Runway Extension
  - MSP LTCP Projects



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