## **Evaluation/Performance Measures** TPP Technical Working Group

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## **Chapter Review**

- Highlighted yellow areas represent data, maps and text that are actively being worked on
  - Forecasts (in progress)
  - Accessibility Performance Measures
  - Measures requiring updated data sources
- Suggestions for graphics, other methods for presenting data
- Performance and Evaluation Measures will be an ongoing program

## Ways of Evaluating Performance



- Adopted Targets (Federal Performance Measures): 4-year targets • adopted by the DOT and MPOs
- **Evaluating Trends:** monitoring trends to determine if performance • measures are going in the right direction
- **Forecasts:** use forecast models to evaluate how investments affect ulletoutcomes under different scenarios

## Forecasts



## **Three Scenarios**

- Base Year
  - Existing population/jobs
  - Existing transportation network
- 2050 No Build
  - Projected 2050 population/jobs
  - Existing transportation network

## 2050 Current Revenue

- Projected 2050 population/jobs
- Fiscally Constrained 2050 Build Network

## **Performance Chapter Outline**



- Introduction
  - Performance measure's role in implementing plan

#### **Federal Performance Measures**

- Federal requirements
- Short-term measures
- Trends in areas such as safety, infrastructure condition, and asset management

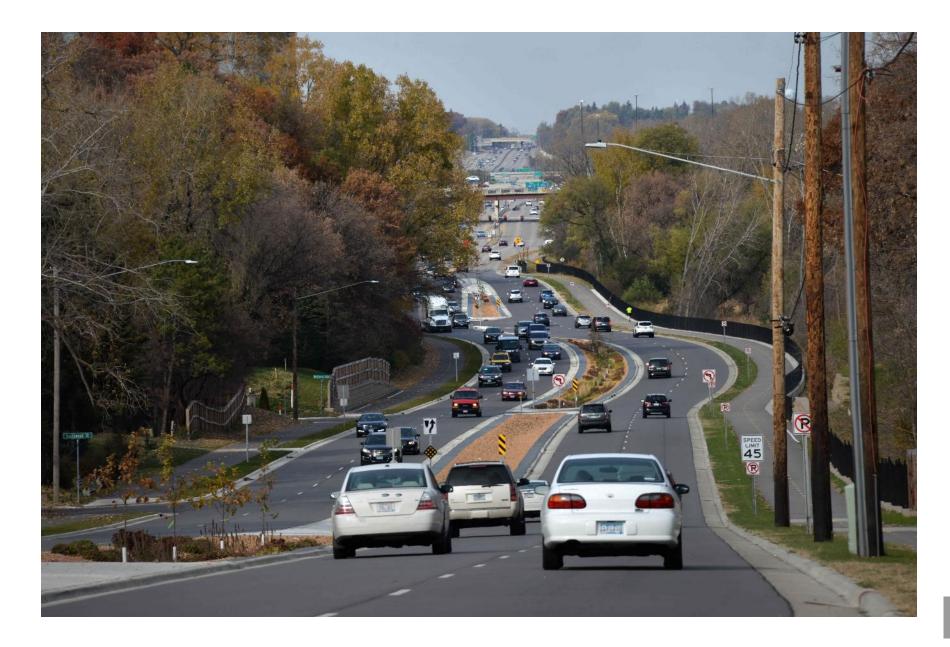
#### **Regional Performance Measures**

- **Transportation Policy Plan**
- **Based on Plan Objectives**
- **Trends and Forecasts** •

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## **Federal Performance Measures**

- Federal law requires DOTs and MPOs to establish performance targets in 6 areas:
  - Transportation Safety
  - Bridge and Pavement Condition
  - System Performance and Reliability
  - Congestion Mitigation and Air Quality
  - Transit Asset Management
  - Transit Safety



## **Identification of Regional Measures**



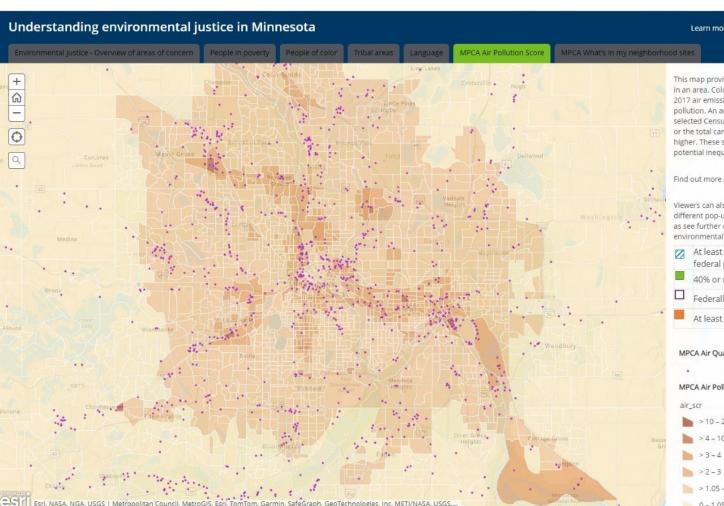
- Measures based on TPP Goals
- Discussions with external and internal stakeholders
- Selected measures based on criteria such as:
  - Feasible
  - Relevance to proposed objectives
  - Simple to communicate
  - Influenced by transportation system
  - Can be disaggregated for equity analysis
  - Source data regularly updated

## holders

## Our region is equitable and inclusive

## **Key Concept: Measure Impacts on Different Segment of Population, Not Just Regional Averages**

- Access to Destinations, e.g.
  - How many jobs can people reach
  - How long does it take to reach key destinations
- **Exposure to Pollution**
- **Exposure to Noise**



Source: MPCA



#### Learn more at MPCA website 🖪 🎔 🔗 🎆 MINNESOTA POLLUTIO

in an area. Colors show estimated impacts from pollution reported to MPCA's elected Census block group level — either the total non-cancer hazard index tal cancer risk relative to a 1 in 100.000 guideline, whichever one is higher. These scores are used to prioritize environmental work and to identify potential inequalities in air pollution exposure

Find out more at MPCA's Air and human health webpage

different pop-up windows to learn more about the air pollution score as well as see further demographic details from the EPAs EJScreen tool. The environmental justice areas are provided in the background of the man

At least 35% of people reported income less than 200% of the federal poverty level

40% or more people of color

Federally recognized Indian Tribes

At least 40% of people have limited English proficiency

MPCA Air Quality Sites (Active)

MPCA Air Pollution Score 201

 $> 10 - 2^{\circ}$ > 4 - 10 > 1.05 - 2 0 - 1.05

## **Our Communities are Healthy and Safe**

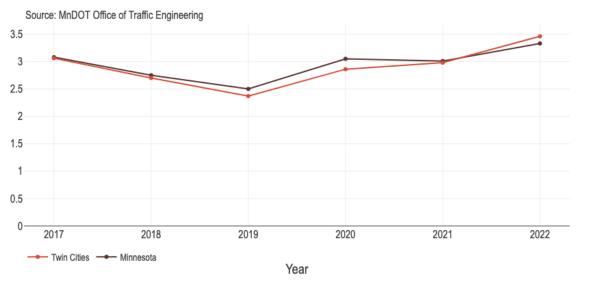
Bicycle

Other

Drove Alone

Drove/Rode with Others

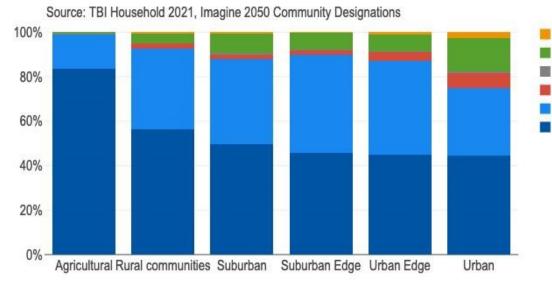
#### Serious injury crash rate on Minnesota roads, 2017-2022



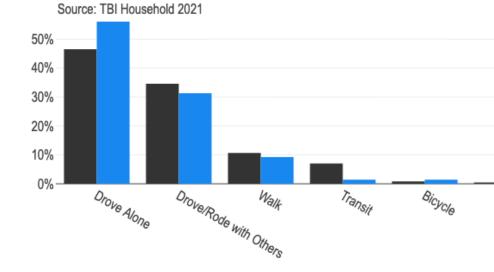
### • Fatalities and serious injuries rate on roads

- Bicycle and pedestrian injuries
- Travel by modes existing and forecasts
- Air pollutant emissions levels existing and forecasts

### Mode Share by Community Designation



#### Mode Share by Race



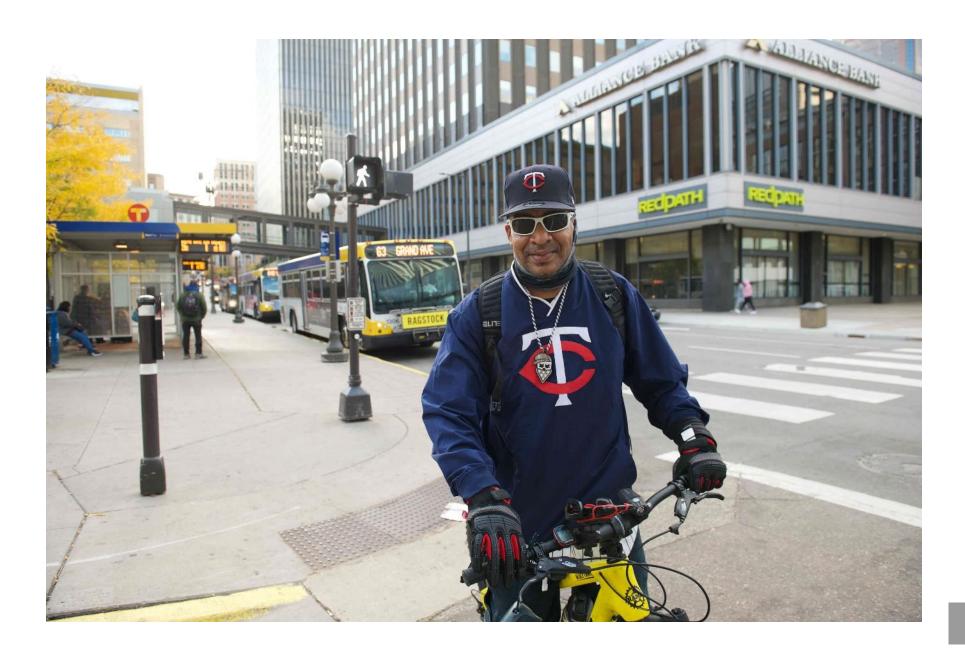
## casts ing and forecasts

Black, Indigenous, and People of Color White

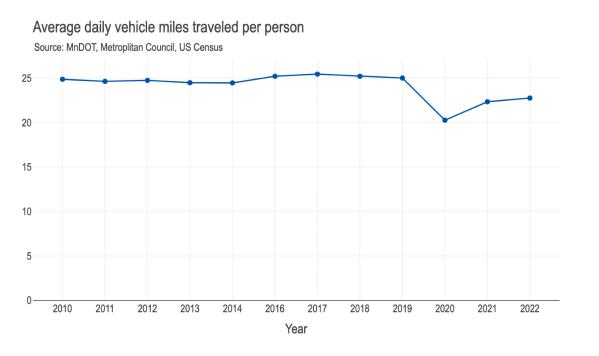
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## **Our Region is Dynamic and Resilient**

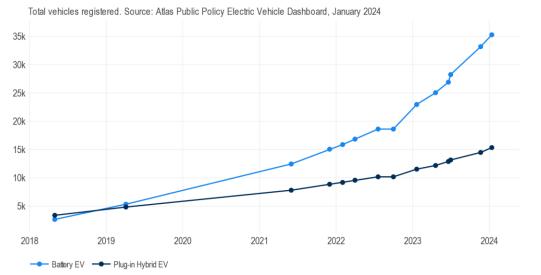
- Infrastructure vulnerability to extreme heat
- Infrastructure vulnerability to flooding
- Critical bridges ٠
- Congestion and reliability



## We Lead on Addressing Climate Change



#### Statewide electric vehicle registrations

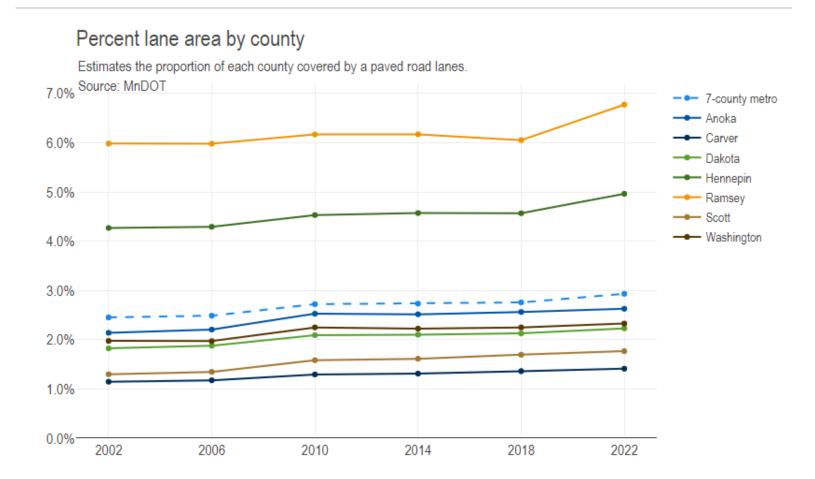


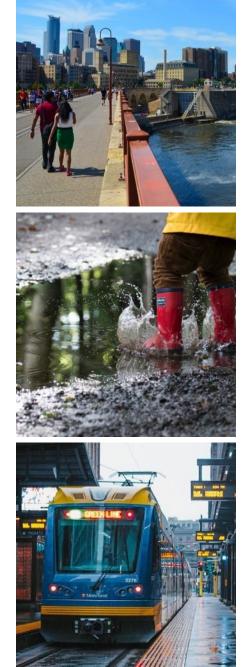
- Greenhouse Gas Emissions
  - Existing
  - Forecasted Under No Build and Current Revenue
- Average Vehicle Miles Travel
  - Existing
  - Forecasted Under No Build and Current Revenue
- **Electric Vehicle Registrations**

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## We Protect and Restore Natural Systems

- Percent of Lanes that are Impervious Surfaces
- Potential Future Work Items





## Work Program



- Inventory of ADA compliance on public rights-of-way
- Impacts on stormwater systems •
- System redundancy/vulnerability to disruption •
- Safety perceptions ullet
- Study of how well transportation system connects different areas of region

**Other ideas?** •



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