



FAST FORWARD TO ►►

2045

Metropolitan Transportation Plan Executive Summary



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OUR VISION & MISSION



The future will be here before we know it. That's why MetroPlan Orlando, the metropolitan planning organization (MPO) for Orange, Osceola, and Seminole Counties, works hard to anticipate tomorrow's transportation needs and to start preparing for them today. Using technical expertise, partnership with local governments and transportation agencies, and input from the public, we prepared the region to *Fast Forward* two decades. This executive summary contains an overview of our Metropolitan Transportation Plan for the year 2045.

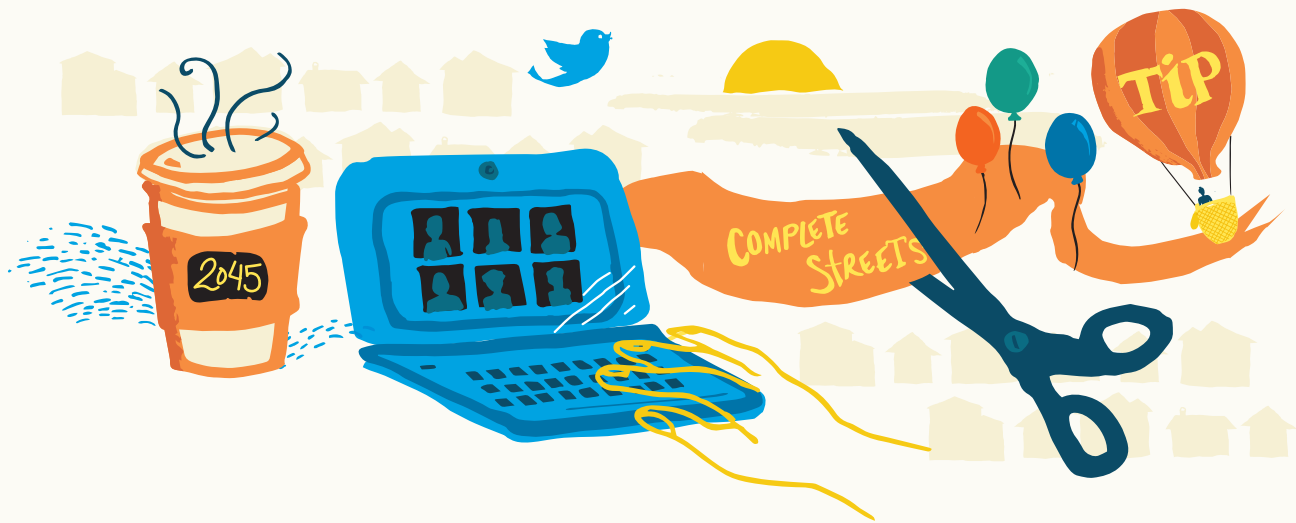
Central Florida's Transportation Vision

A regional transportation system that safely and efficiently moves people and goods through a variety of options that support the region's vitality.

MetroPlan Orlando's Mission

To provide leadership in transportation planning by engaging the public and fostering effective partnerships.

GETTING UP TO SPEED



While our organization focuses on the future, replaying the past helps us learn valuable lessons and move our regional transportation vision ahead. Continuing our planning work during a global pandemic has presented challenges, but we have remained focused.

Our center of attention has been advancing three main plans: **The 2045 Plan**, the **Prioritized Project List** and **Transportation Improvement Program** (5-year work plan). Each requires coordination with government and transportation partners.

The planning calendars have stayed busy, supporting our goals and those of our partners. We have helped develop **Complete Streets** conceptual plans throughout the three counties, working with local governments to make roads more accessible for everyone. We have advanced **health and safety** programs. We are leading a ground-breaking cooperative effort among MPOs across the middle of the state with our **Regional TSMO** (Transportation System Management & Operations) program to

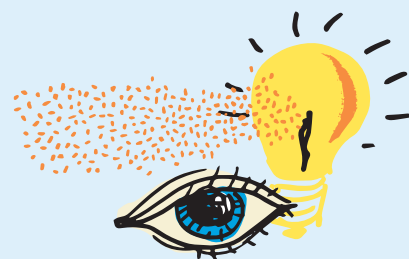
improve efficiency and safety through advanced strategies and technology.

At the heart of our operation always are our **board and advisory committee** members, convening in-person, virtually, or in hybrid sessions to keep business rolling. They represent our most important stakeholders – people of Central Florida, who depend on transportation for livelihoods, recreation, and quality of life. We have new **outreach** tools, which create opportunities to bring more people into the process. We have held webinars and forums to listen and inform, created video access to our meetings, and ramped up social media. We surveyed people about transportation needs, including many from parts of the community not ordinarily represented in decision-making.

During the creation of the 2045 Plan, our region discovered ways to keep moving, to pivot, to adapt. We refused to stop – or even slow down – because we are resilient and on *Fast Forward* to our future.

LEARN MORE ON OUR WEBSITE

- Plans
- Board & Committee Pages
- Regional Transportation Survey Report



CENTRAL FLORIDA: TODAY VS. 2045

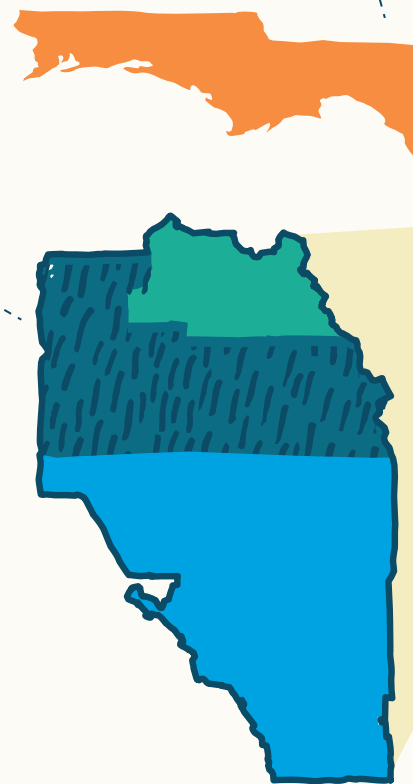


ONE MILLION MORE PEOPLE

Central Florida will continue to be a place people want to live. Our current 2.2 million population will add about a million people by 2045, and we'll be a more diverse region. High-growth forecasted areas include western Orange County around Horizon West and Osceola County on both sides of Lake Toho, including Poinciana and St. Cloud. The region also expects to continue receiving record numbers of visitors.

MORE FREIGHT, GOODS & SERVICES

More people will also need a lot more stuff. Efficiently moving freight, goods, and services throughout the region is key to supporting Central Florida's economic development. Our reliance on delivery services will likely continue far into the future. The trucking industry may be the first to use fleets of fully driverless semi-trucks for long haul trips, and by 2045, more of our packages may be arriving at our front doors by drone or other automated technologies.



A MATURE TRANSPORTATION SYSTEM

We'll have to provide options for how a growing population gets around, including enhanced bus and rail service. Focusing solely on cars is unsustainable. Our transportation system will be smarter, using more Transportation System Management & Operations strategies as vehicles, people, and infrastructure become more connected. We'll see more Complete Streets and safety projects that focus on moving people in many ways. Our region's completed trail system will help us stay active and enjoy nature.

Our region will look vastly different in 2045 – but how? That depends on our actions. The next two decades can bring us closer to our desired future, with concerted effort, or move us further away, with inaction.

MORE DRIVERLESS VEHICLES

Today, the driverless (AKA automated) vehicle industry is working feverishly in the research, development, and deployment of projects. As these vehicles become widespread in coming years, we'll see a long period where there's a mix of vehicles with different technology levels sharing the road. By 2045, driverless vehicles will be much more common. There's potential for driverless vehicles to dramatically improve traffic safety, but we'll also have new challenges such as cybersecurity.



MORE ELECTRIC VEHICLES, LESS GAS TAX REVENUE

Electric vehicles will become a bigger share of new car sales between now and 2045, but the region has to ensure utility grid capacity and charging infrastructure as popularity grows. Our current transportation funding system is based on the fuel tax. This means that electric vehicles don't currently contribute to our traditional sources of transportation funding. Projections suggest state revenue losses could range from 8% to 30% by 2040, depending on adoption rates.

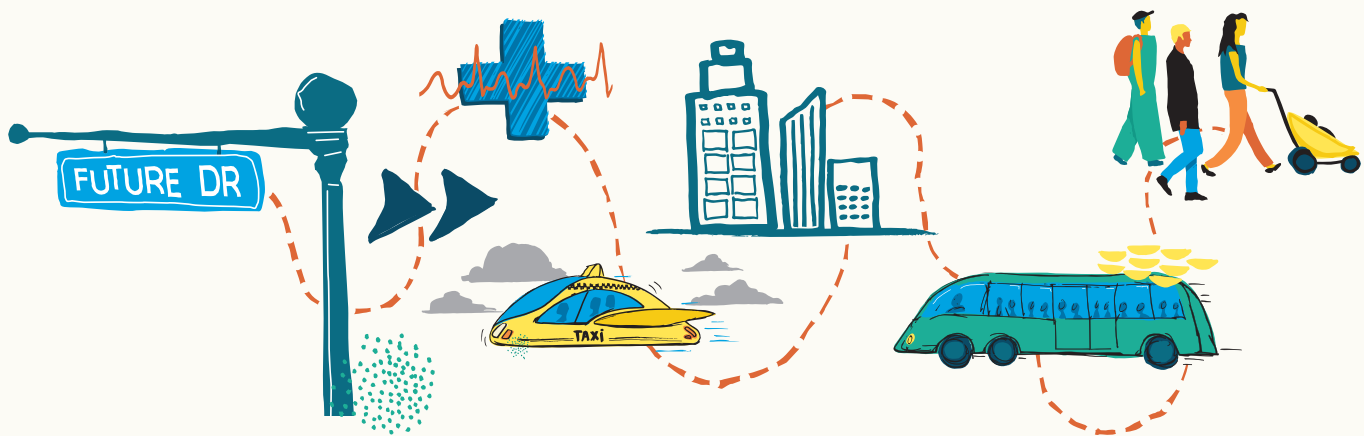


MANY UNKNOWNNS

There are countless unknowns about the future. As driverless cars enter the scene, sometimes traveling empty, will more wear and tear be put on the roads? How will greater safety be achieved for pedestrians, bicyclists, and drivers? How can we ensure equitable access for all as technology rapidly changes? How can we deliver the frequent, well-connected, and reliable transit service the region needs? Will the transportation funding model change? How can we reduce transportation's impact on the environment?



FAST FORWARD TO 2045



The future is not waiting patiently for Central Florida.

Moving this growing region through the next 25 years will be a challenge, as transportation needs expand. Hurling toward the year 2045, we have confidence in the Metropolitan Transportation Plan (MTP) guiding our vision.

The 2045 Plan, approved in December 2020, puts us on a fast track to the region Central Floridians say they want. We are federally required to produce a long-range plan, and this one differs significantly from its predecessors.

It focuses on moving people – not just cars – with increased emphasis on biking, walking, and transit. The plan aligns \$27.9 billion in long-term investment with our goals to protect the region’s safety, health, environment, and economic well-being. While that’s an eye-popping figure, it’s nowhere near enough to meet all our needs or desires.

Acknowledging the uncertainty of the future, the MTP sketches different scenarios and works through strategies to stay on track. The plan looks at four potential futures involving climate, technology, major disruptions, or a continuation of traditional trends and how each could affect transportation planning. Scenario planning “future-proofs” the 2045 Plan, by helping us understand forces driving change and how to quantify, manage, and navigate their outcomes. As the plan goes through continual review, we can adapt to whatever is on the horizon.

The MTP considers health, accessibility, and equity as no other long-range plan has done. It offers transportation choices and includes people in underserved areas or those with financial burdens by tracking how projects are positioned near these parts of our region. New methods of analyzing travel information give a fuller picture of how people move about by walking, cycling, and transit. A Healthy Mobility Tool measures public health in the transportation system and helps assess how to address those issues.

Thousands of Central Floridians had a hand in shaping the 2045 Plan. A working group of community leaders, experts, and technical staff met regularly to review and discuss the plan as it came together. Members of the MetroPlan Orlando Board and advisory committees were briefed throughout the process. And thanks to creative public participation strategies – revised for pandemic restrictions – almost 16,000 people engaged with us throughout the development and approval journey. Input from the public, stakeholders, and decision-makers influenced technical decisions more than ever, making this plan truly a community vision.

The year 2045 may seem a long way off, but we are on *Fast Forward* to a future that in many ways is already here.

THE 5 GOALS GUIDING THE 2045 PLAN

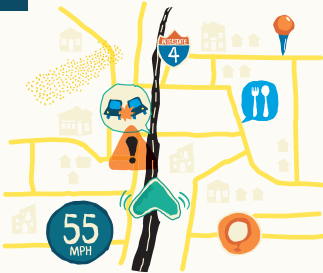
GOAL 1



SAFETY & SECURITY

Protecting lives and health in our region is a paramount concern and a shared responsibility of planners and transportation system users. The plan provides safe, secure ways for everyone to travel.

GOAL 2



RELIABILITY & PERFORMANCE

Congestion is a way of life for Central Floridians, and – since it will never go away – technology can make trips more reliable and predictable. The plan promotes innovations to improve the system’s performance.

GOAL 3



ACCESS & CONNECTIVITY

A prosperous community must make transportation work for all its members. The plan helps extend access to the diverse segments of Central Florida, connecting everyone to more opportunities.

GOAL 4



HEALTH & ENVIRONMENT

Central Florida’s natural resources are key to its success, and transportation solutions must protect them. The plan emphasizes our region’s public health, equity, land use, and environmental issues.

GOAL 5



INVESTMENT & ECONOMY

A sustainable transportation system is the foundation of Central Florida’s economy and enviable quality of life. The plan supports prosperity through transportation investment that improves safety and efficiency.

To learn more, visit MetroPlanOrlando.org/2045

ACCELERATED BY DATA



Loads of data accelerate the transportation planning process, helping assess the performance of individual projects and the entire system – and ultimately focusing investments on attaining our region’s long-term vision. Federal guidance from the U.S. Department of Transportation directs MetroPlan Orlando to use performance targets to identify needs, select projects, and monitor results.

How are projects measured objectively when they vary so widely? Starting with the end in mind, we used the 2045 Plan goals to establish measurable objectives, no matter the transportation mode. Some of the wide-ranging data types used to evaluate projects are listed in the accompanying graphic. For performance measures to really make a difference, regular monitoring must take place. MetroPlan Orlando tracks trends and uses a congestion management process continuously to

keep an eye on our transportation system, making adjustments as needed.

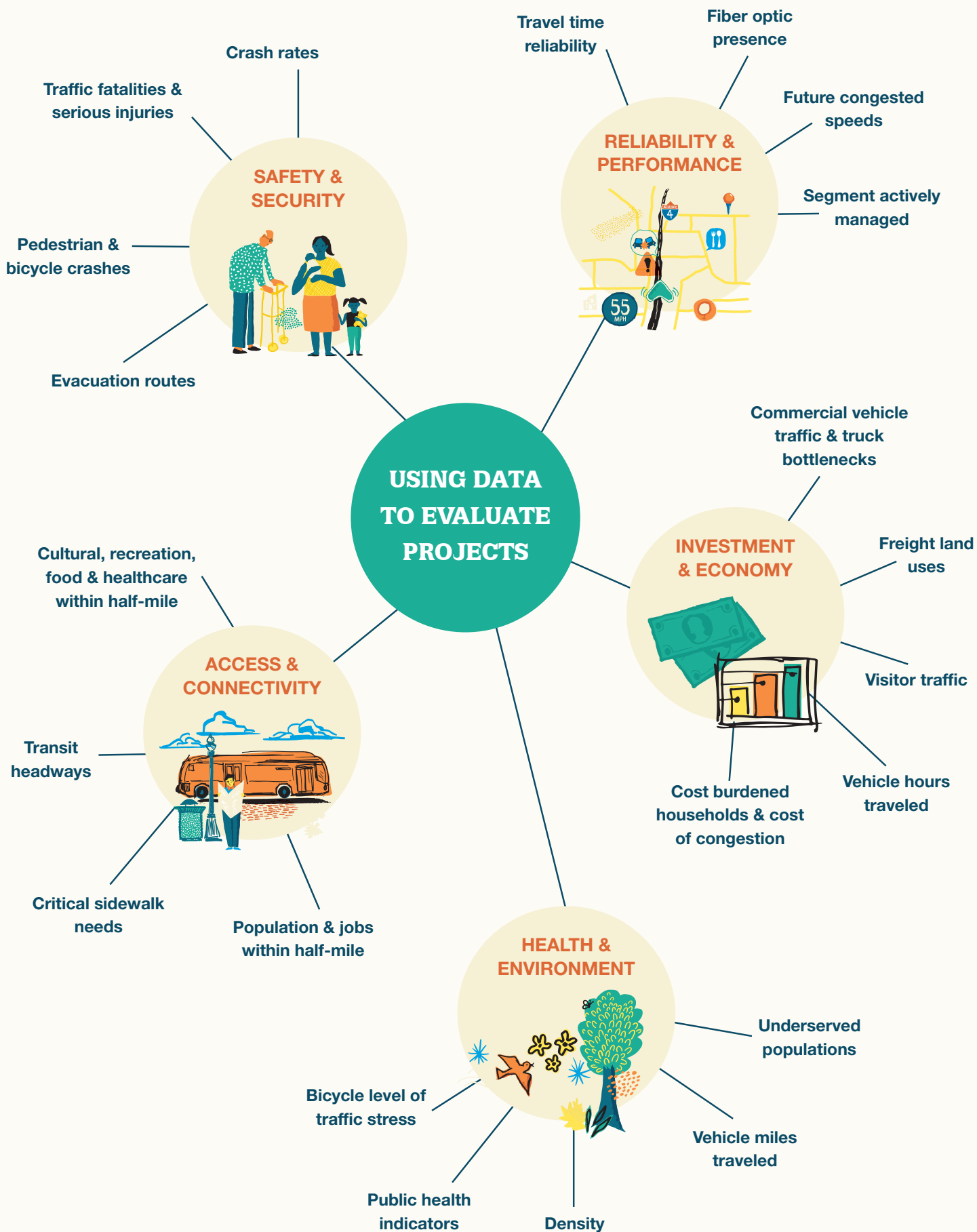
Data also propels transportation into the future through swiftly evolving technologies that will change how we travel, such as automated, connected, and electric vehicles. MetroPlan Orlando can help the region identify and understand the local challenges and tradeoffs associated with these technologies, promote data security, support equitable access, and build partnerships.

The future is calling. As we *Fast Forward* to the year 2045 and beyond, MetroPlan Orlando will continue listening to the public and providing leadership to prepare Central Florida for challenges and opportunities, leaving a safe and efficient transportation system as a legacy.

LEARN MORE ON OUR WEBSITE

- Tracking the Trends Interactive Story Map
- 2045 Plan Report: Congestion Management Process
- Fact Sheet: Automated, Connected & Electric Vehicles





DIG DEEPER AT MetroPlanOrlando.org/2045



2045 PLAN DOCUMENTS & RESOURCES

Cost Feasible Plan

A list of transportation projects the region can afford through 2045

Public Participation Report

Community outreach results and how public input shaped the 2045 Plan

Data Viewer

Interactive map showing 2045 Plan projects near you

Congestion Management Process

How congestion is monitored and strategies used to address it

TECHNICAL REPORTS

Explore our Metropolitan Transportation Plan technical reports for an in-depth look at how we are planning for the year 2045

1 – Goals & Objectives

MetroPlan Orlando's transportation vision and goals for the 2045 Plan

8 – Scenario Planning: Background & Development

Overview of scenario development and planning

2 – Data Source Guide

A data dictionary that outlines comprehensive sources used

9 – Pedestrian & Bicyclist Needs Assessment

Evaluation of the region's existing pedestrian and bicycle network

3 – Origin-Destination Analyses

In-depth look at travel patterns in Central Florida

10 – Health & Environmental Screening

How to evaluate transportation impacts on public health and the environment

4 – Existing Conditions & Area Profile

Overview of the region's existing conditions and the basis of forecasts

11 – Regional Transit Needs

Existing services and issues impacting public transportation

5 – Financial Resources

How transportation could be funded over the next 20-25 years

12 – Multimodal Needs

The process for developing the Multimodal Needs List

6 – Prioritization Process

Criteria used to score, evaluate, and prioritize 2045 Plan projects

13 – System Performance Report

Performance targets for the transportation system

7 – Freight & Goods Movement

Freight mobility needs and opportunities

14 – Scenario Planning Summary & Strategies

Four potential futures & results of scenario planning



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