



# ENVISION 2045

Collier MPO



AUGUST 26, 2019

## COLLIER MPO LONG RANGE TRANSPORTATION PLAN

TECHNICAL ADVISORY COMMITTEE (TAC) WORKSHOP GOALS & OBJECTIVES  
MPO Staff presented to CITIZENS ADVISORY COMMITTEE (CAC)



# Agenda



- ❖ Overview
- ❖ LRTP Schedule & Process
- ❖ Phase 1 Deliverables
  - ❖ Public Involvement Plan
  - ❖ Existing Conditions Analysis
- ❖ Vision, Goals and Objectives
- ❖ Performance Measures and Targets
- ❖ Project Evaluation Criteria
- ❖ Next Steps

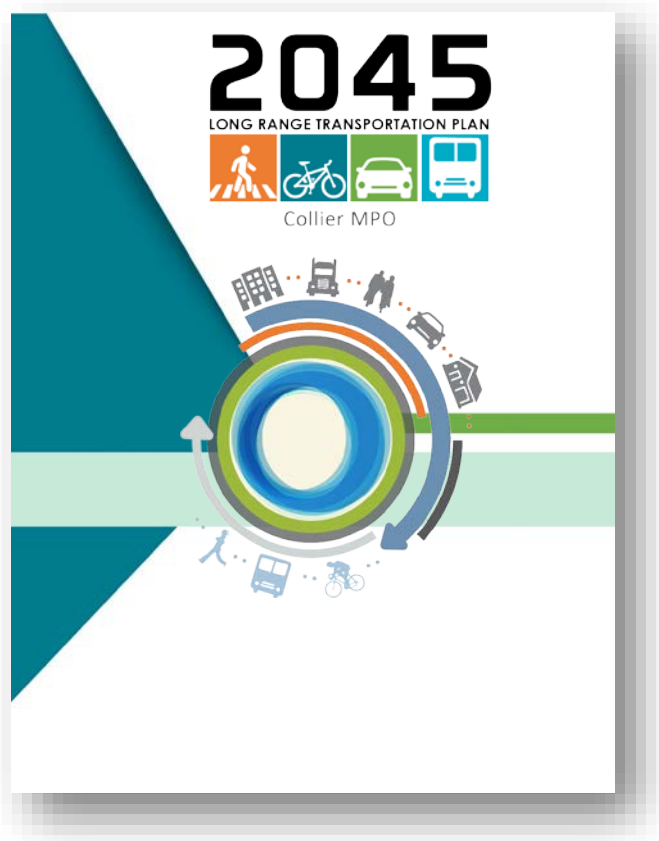


# Overview of Planning Document Requirements





# LRTP Requirements



- ❖ No less than 20-year planning horizon
- ❖ Performance measures and targets
- ❖ System Performance Report
- ❖ Financial Plan
- ❖ Multiple growth/mobility scenarios
- ❖ Public participation

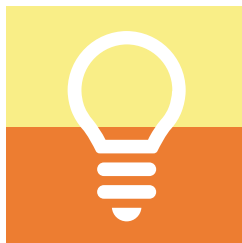




# Planning Emphasis Areas



Transportation  
Resiliency



Scenario  
Planning



Rural  
Connectivity



Intercity  
Travel



Performance  
Based  
Planning



Environmental  
Linkages



Tourism  
& Visitors



Stormwater  
Mitigation



Transit Asset  
Management



# New Horizon Year of 2045

We will need to consider:

- Scenario Planning
- Resiliency to Extreme Weather
- Autonomous/Connected Vehicles (AV/CV)
- Performance Measures and Monitoring



Source: NOAA



Source: Florida's Turnpike Enterprise



# LRTP Schedule & Process







2019

2020



## PROJECT KICK OFF

- ✓ PIP
- ✓ Strategic planning session
- ✓ Project Schedule
  - Adviser Network
  - Targeted Organizations & Key stakeholder interviews
  - Collier Staff Working Group



MPO Board & Committees



## PHASE I EXISTING CONDITIONS ANALYSIS & GOALS

- ✓ Vision, Goals & Objectives
- ✓ Performance Measures & Targets
- ✓ 2045 SCE Forecasts
- ✓ 2045 TDM Validation
- ✓ Address FDOT Guidance on ACES



MPO Board, Committees  
& Public Open House #1  
Visioning Concepts



## PHASE II SCENARIO PLANNING

- ✓ Land Development
- ✓ Transit & Travel Demand
- ✓ E+C Network
- ✓ Projects Selection
- ✓ Prioritization Criteria



MPO Board, Committees  
& Public Open House #2  
Project Prioritization



## PHASE III NEEDS & COST FEASIBLE PLAN

- ✓ Needs Plan
- ✓ Revenue Projections
- ✓ Cost Feasible Plan
- ✓ Environmental & EJ Screening



MPO Board, Committees  
& Public Open House #3  
List of Projects



## PHASE IV FINAL LRTP

- ✓ Final program of projects
- ✓ Draft LRTP
- ✓ Final LRTP
- ✓ Project close out



MPO Board, Committees  
& Public Open House #4



## STAKEHOLDER OUTREACH







ENVISION  
**2045**  
Collier MPC

# MPO Calendar

## Metropolitan Planning Organization (MPO) – Monthly at 9:00 a.m.

All MPO Board Meetings are held on the second Friday of the month. MPO Board Meetings will be held at the Board of County Commissioners Chambers, 3299 E. Tamiami Trail, Naples, unless otherwise noted.

February 8, 2019	March 8, 2019	*April 12, 2019	May 10, 2019
June 14, 2019	September 13, 2019	October 11, 2019	**October 18, 2019
November 8, 2019	December 13, 2019		

\*This is the Collier MPO road-show meeting held at 10:00 a.m. in Everglades City Hall, 102 Copeland Ave. N

\*\* This a JOINT MEETING with Lee MPO, location TBD

## Technical Advisory Committee (TAC) – Monthly at 9:30 a.m.

All TAC Meetings are held on the last Monday of the month. TAC Meetings will be held at the Collier Growth Management Department, Planning & Regulation Building Conference Rooms 609/610, 2800 North Horseshoe Drive, Naples, unless noted below.

January 28, 2019	February 25, 2019	March 25, 2019	April 29, 2019
*May 20, 2019	August 26, 2019	September 30, 2019	**October 3, 2019
October 28, 2019	November 25, 2019		

\*May 27<sup>th</sup> is Memorial Day

\*\*This is a JOINT MEETING with Lee TAC, location TBD



# Phase 1 Deliverables (PM & PI)

- Project Schedule
- Project status reports
- Public Involvement Plan
- On-line surveys and maps
- MPO presentations
- Coordinate online collaboration tool (i.e., Wikimapping)
- Targeted Organizations & Stakeholder Meeting list (PIP Appendix A, expanded Adviser Network)

# Phase 1 Deliverables

- Vision, Goals and Objectives
- Performance Measures and Targets
- Existing Conditions Analysis, including:
  - Environmental Justice Communities
  - Preliminary Climate Change Vulnerability Analysis – ACUNE modeling tool (June 2020 release)
- Planning Consistency
  - Summarize pertinent elements of FDOT WP, SIS, Freight Plan and SHSP
- 2045 Socio-Economic Data Set and Technical Memorandum
- Proposed updated Traffic Analysis Zone (TAZ) structure, if needed
- **Optional:**
  - EJ analysis
  - Resiliency analysis (climate change)
  - ACES – how the LRTP and TDM will address it, including decreased revenues.



# Public Involvement Plan

- MPO Public Participation Plan (PPP) adopted February 8, 2019 <http://colliermmpo.com/index.aspx?page=63>
- TAC Workshops
- MPO Board presentations (quarterly)
- Committee Updates: CAC, BPAC, CMC, LCB (by MPO staff)
- Expanded Adviser Network Email Distribution List (LRT PIP, Appendix A)





# Public Involvement Plan

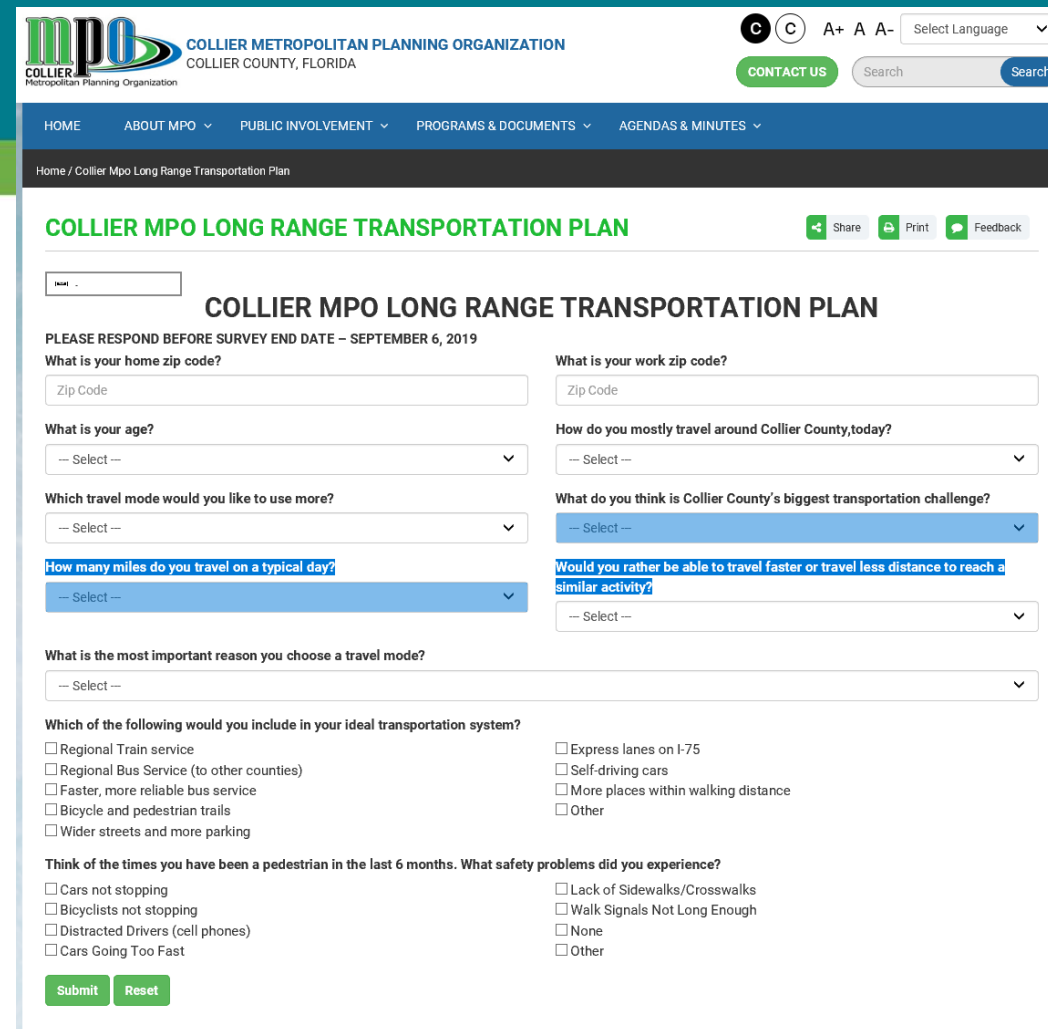
- Opportunities for General Public to Participate
  - Community Open Houses (*not public workshops*)
  - Interactive Website
  - Online Surveys [per phase]
  - Newsletters [up to 4]
  - Information Booths [up to 4]
- Meetings with Targeted Organizations [up to 10]





# Online Surveys

- Survey #1 Live
- Statistically valid
- Quarterly Surveys will include questions about:
  - Constituent Info
  - Modal Choices
  - Funding Sources
  - Investment Options
  - Future Mobily
  - Lane Use Options
  - Future Technology



The screenshot shows the Collier MPO Long Range Transportation Plan survey form. The header includes the MPO logo, the organization's name, and navigation links. The survey title is "COLLIER MPO LONG RANGE TRANSPORTATION PLAN". The form contains several sections of questions, including demographic information (zip codes, age), travel habits (travel mode, frequency, challenges), and transportation preferences (ideal system components, safety concerns). The survey end date is September 6, 2019. The form includes a "Submit" button and a "Reset" button.

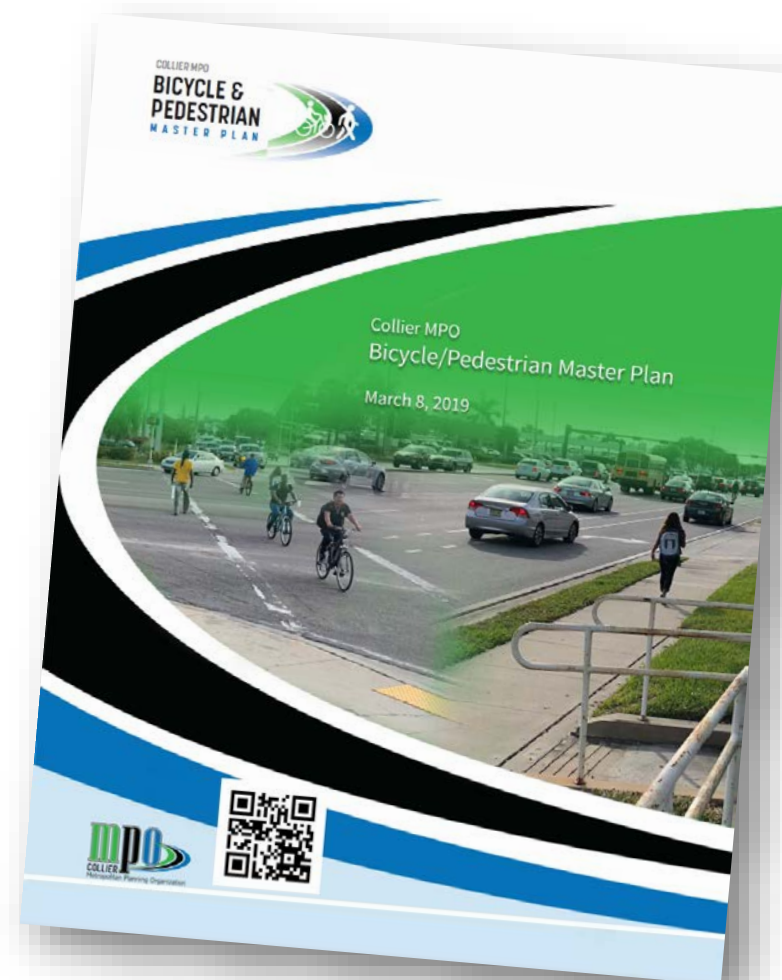
**PLEASE RESPOND BEFORE SURVEY END DATE – SEPTEMBER 6, 2019**





# Adopted Land Use and Growth Management Consistency

- Collier County Community Housing Plan 2017 Update
- Congestion Management Process 2017
- Collier County Master Mobility Plan Draft Report 2011
- Transportation Network's Vulnerability to Climate Change
- Automated Connected Electric Vehicle Shared mobility (ACES)
- FDOT Office of Policy Planning 2045 Revenue Forecast
- Collier County Coastal Storm Risk Management Study
- Transportation System Performance Report (TSPR)
- Strategic Highway Safety Plan (SHSP)
- **Center for Neighborhood Technology ?**
- Housing and Transportation Affordability Index



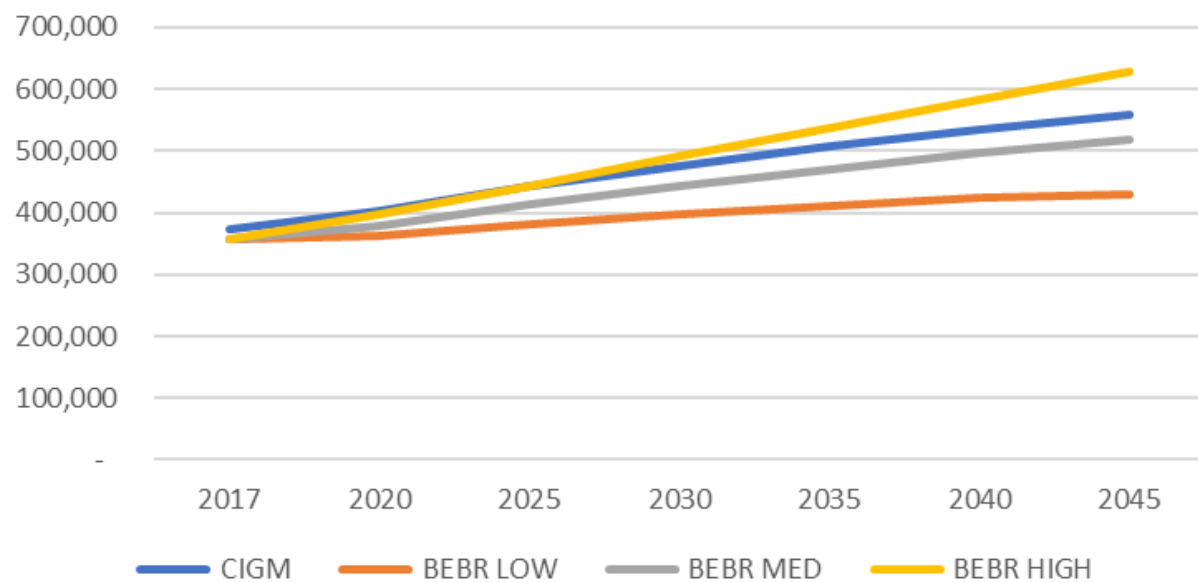
# County Interactive Growth Model (CIGM)

- Assist Collier MPO with Socioeconomic Allocations in the County Interactive Growth Model (CIGM) for the 2045 LRTP
- Metro Forecasting Models (MFM)
- Predict and allocate growth according to:
  - zoning entitlements
  - local land use policies
  - water and sewer utilities
  - roadway capacity
  - parcel size
  - environmental conditions
- LRTP Scope includes testing land use “scenarios” to model transportation needs generated by local land use policies and zoning entitlements and whether alternative land use or network scenarios for new growth and redevelopment areas would result in greater efficiencies and lower costs

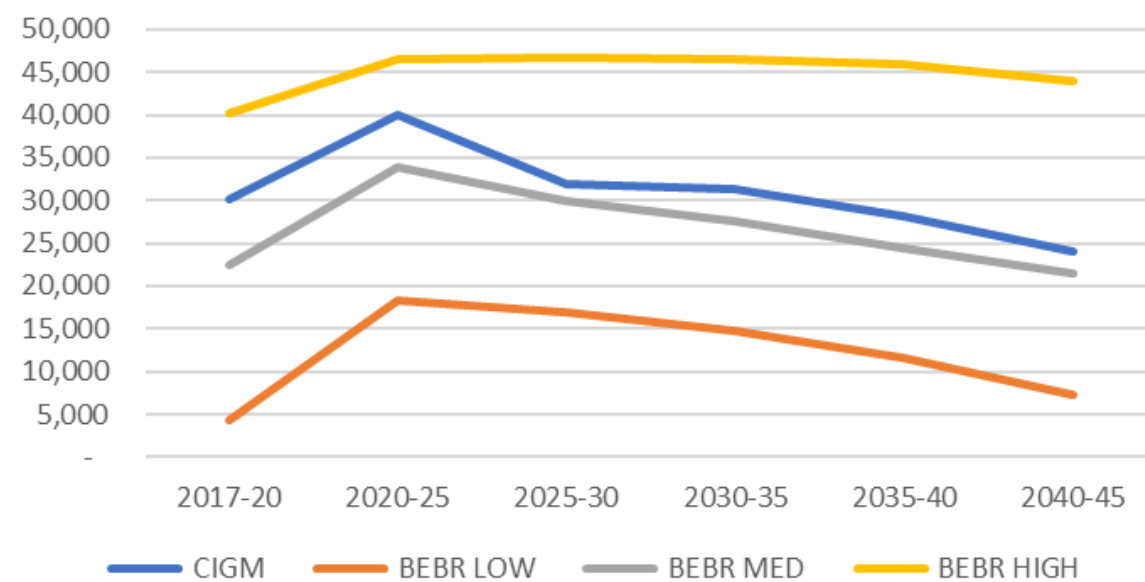


# BEBR vs. CIGM Comparison

Population Estimates



Population Change 5-Yr Periods





# Time to Envision...



- What questions do you want answered in the LRTP?
- How do we want to continue growing?
- What do we want our transportation system to look like?
- How will we fund our shared regional vision?
- What steps must be taken to achieve the vision?





# Time to Envision...

Vision is set by the member government's comprehensive and growth management plans and must be consistent with growth projections.

Minor Addition to Vision Presented to MPO Board:

***Development of an integrated multimodal transportation system to facilitate the safe and efficient movement of people and goods while addressing current and future transportation demand, environmental sustainability, and community character.***

Or Major Revision:

***“The Collier MPO 2045 Long Range Transportation Plan is the development of an integrated transportation system to facilitate a safe, efficient and reliable multi-modal system that provides residents, workers and visitors accessible, quality travel options in consideration of complete streets policies and designated redevelopment areas, while preserving the unique natural features and rural character.”***



**COLLIER METROPOLITAN PLANNING ORGANIZATION**

## Keeping Up with Your MPO

SUMMER 2018 ISSUE

### Looking Ahead to the 2045 LRTP

As we begin the process of updating the 2040 Long Range Transportation Plan (LRTP) to the new horizon year of 2045, there are a number of "givens" that must be addressed. Population projections are one of them. Collier MPO uses the medium range projection developed by the Bureau of Economic and Business Research (BEER). BEER is projecting a very slight decrease in the rate of growth for Collier County, compared to the 2040 LRTP. None-the-less, the population is projected to grow from roughly 388,000 in 2017 to 620,000 (in round numbers) by 2045. FDOT's Revenue Projections for Collier County are another "given" the MPO must address in the LRTP's Cost Feasible Plan. Available State and Federal Funds for Capacity Projects (excluding Transportation Regional Incentive Program and Transportation Management Area Small Urban) total \$778.36 million—about double the amount projected for the 2040 LRTP.

"Statewide Trends Affecting Transportation," published by FDOT's Forecasting and Trends Office in 2017, shows growth steadily increasing for the state as a whole. Trends indicate a steadily increasing number of licensed drivers and registered vehicles, along with increased Daily Vehicle Miles Traveled (VMT) and increased congestion on the State Highway System. The Collier MPO has seen a slight upward curve in congestion, but not as extreme as that experienced in more heavily populated MPOs. Statewide, the number of fatalities and serious injuries is trending up along with population growth and increasing VMT. Transit ridership is decreasing statewide, and in Collier County as well.

Continued on p.3.

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Scan the QR code with your smart phone to access our website.

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COLLIER  
Metropolitan Planning Organization





# LRTP Goals

1. Ensure the Security of Transportation System for Users
2. Protect Environmental Resources
3. Improve System Continuity and Connectivity
4. Reduce Roadway Congestion
5. Promote Freight Movement
6. Increase the Safety of the Transportation System for Users
7. Promote Multi-modal Solutions
8. Promote the Integrated Planning of Transportation and Land Use







# LRTP Goals continued

9. Promote Sustainability in the Planning of Transportation and Land Use
10. Consider Climate Change Vulnerability and Risk in Transportation Decision Making
11. Consider Autonomous and Connected Vehicles (A/V) Technology in Future





# Sea Level Rise / Resiliency Goals

- The NOAA-funded ACUNE project is completing its second year
- Workshops were held with Natural Resource Management Team & Urban Resilience & Planning Team on May 7 & 8, 2019
- MPO staff participated in Urban Resilience & Planning Focus Group meeting held on July 17, 2019
- June 2020 - Anticipated public release of enhanced ACUNE modeling tool

The New York Times

*With More Storms and Rising Seas,  
Which U.S. Cities Should Be Saved First?*



A sea wall facing the Gulf of Mexico in Galveston, Tex., after Hurricane Harvey in 2017. Brendan Smialowski/Agence France-Presse — Getty Images

#### Total cost of adding sea walls

1. Jacksonville, Fla.	\$3.5 billion
2. New York City	\$2.0 billion
3. Virginia Beach	\$1.7 billion
4. Galveston, Tex.	\$1.1 billion
5. Charleston, S.C.	\$1.0 billion
6. Tampa, Fla.	\$938.4 million
7. Barnstable Town, Mass.	\$889.2 million
8. Corpus Christi, Tex.	\$861.1 million
9. St. Petersburg, Fla.	\$751.4 million
10. New Orleans	\$725.1 million

*“The research is limited in that it considers only sea walls, and not other methods for minimizing flood risk that may be more practical in some places, such as moving homes and shops away from the most flood-prone areas.”*

# Performance Measures and Targets

- COLLIER MPO ADOPTED PERFORMANCE MEASURES & TARGETS ON NOVEMBER 9, 2018
- INCORPORATE IN 2045 LRTP EVALUATION CRITERIA & PROJECT SELECTION

Measure	Target	Existing Conditions	Meets	Responsible Agency
NHS Interstate Pavements	≥ 60% Good in 4yrs	36.2% Good	No	FDOT
	≤ 5% Poor in 4yrs	0% Poor	Yes	FDOT
NHS Non-Interstate Pavements	≥ 40% Good in 2&4yrs	50.2% Good	Yes	FDOT & County (CR951)
	≤ 5% Poor in 2&4yrs	0% Poor	Yes	FDOT & County (CR951)
NHS Bridge Deck Area Condition	≥ 50% Good in 2&4yrs	83.58%	Yes	FDOT Inventory
	≤10% Poor in 2&4yrs	0%	Yes	FDOT Inventory
NHS Bridge Deck Area Condition	≥ 50% Good in 2&4yrs	no data	no data	County (951)
	≤10% Poor in 2&4yrs	no data	no data	County (951)
% NHS Interstate Person-Miles Traveled That Are Reliable	75% in 2yrs, 70% in 4yrs	100%	Yes	FDOT
% NHS Non-Interstate Person-Miles Traveled That Are Reliable	n/a in 2yrs, 50% in 4yrs	Ranges 42% to 97% past 4 yrs 97% in 2017	Yes	FDOT & County (CR951)
Truck Travel Time Reliability Ratio on NHS Interstate	1.75 in 2yrs, 2.0 in 4yrs	1.12	Yes	FDOT
Transit Rolling Stock	≤10% have met or exceeded ULB	0%	Yes	Collier County - CAT
Transit Equipment	≤25% have met or exceeded ULB	50%	No	Collier County - CAT
Transit Facilities	≥25% < 3 TERM	0%	Yes	Collier County - CAT
Fatalities	0	38	No	FDOT & MPO
Serious Injuries	0	177.2	No	FDOT & MPO
Fatality Rate	0	1.125	No	FDOT & MPO
Injury Rate	0	5.252	No	FDOT & MPO
Nonmotorized Fatalities & Serious Injuries	0	40	No	FDOT & MPO



# Public Involvement – Next 30 days

- Schedule MPO Board presentations and verify agenda packets
- Finalize Public Involvement Plan
- Refine community outreach
- Website updates
- Draft Survey #2
- Draft “E” Newsletter#2

# Activities - Next 30 days

- ❖ FDOT D1 coordination on Districtwide Travel Model
- ❖ Planning Consistency – summary pertinent elements of FDOT WP, SIS, Freight Plan and SHSP
- ❖ 2045 Socio-Economic Data Set and Technical memorandum - Prepare base year population, employment, and network data
- ❖ Proposed updated Traffic Analysis Zone (TAZ) structure, if needed
- ❖ Update project schedule



# ENVISION 2045

Collier MPO

# THANK YOU

