



# AGENDA CMC

Congestion Management Committee  
Collier County Growth Management Division  
Main Conference Room  
2885 South Horseshoe Drive  
Naples, Florida 34104

**March 20, 2019**  
**2:00 p.m.**

1. **Call to Order**
2. **Roll Call**
3. **Approval of Agenda**
4. **Approval of January 16, 2019 Meeting Minutes**
5. **Open to Public for Comment on Items Not on the Agenda**
6. **Agency Updates**
  - A. FDOT
  - B. MPO Director
  - C. Other
7. **Committee Action**
8. **Reports and Presentations (May Require Committee Action)**
  - A. Transportation System Performance Report
9. **Member Comments**
10. **Distribution Items (No presentation)**
11. **Next Meeting Date:**

*Next Meeting Date: May 15, 2019 at 2 p.m.*
12. **Adjournment**

**PLEASE NOTE:**

*This meeting of the Congestion Management Committee (CMC) of the Collier Metropolitan Planning Organization (MPO) is open to the public and citizen input is encouraged. Any person wishing to speak on any scheduled item may do so upon recognition of the Chairperson. Any person desiring to have an item placed on the agenda shall make a request in writing with a description and summary of the item, to the MPO Director or CMC Committee Chair 14 days prior to the date of the next scheduled meeting of the CMC. Any person who decides to appeal a decision of this Committee will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence upon which the appeal is to be based. In accordance with the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting should contact the Collier Metropolitan Planning Organization 72 hours prior to the meeting by calling (239) 252-5884. The MPO's planning process is conducted in accordance with Title VI of the Civil Rights Act of 1964 and Related Statutes. Any person or beneficiary who believes that within the MPO's planning process they have been discriminated against because of race, color, religion, sex, age, national origin, disability, or familial status may file a complaint with the Collier MPO by calling MPO Executive Director, Anne McLaughlin at (239) 252-5884 or by writing to Ms. McLaughlin at 2885 South Horseshoe Dr., Naples, FL 34104.*

**CONGESTION MANAGEMENT COMMITTEE OF THE  
COLLIER METROPOLITAN PLANNING ORGANIZATION  
MAIN CONFERENCE ROOM 2885 SOUTH HORSESHOE DRIVE NAPLES, FL 34104**

**January 16 Meeting Minutes  
2:00 P.M.**

**1. Call to Order**

**Mr. Khawaja** called the meeting to order at 2:10 p.m.

**2. Roll Call**

**Ms. Otero** called roll and confirmed a quorum was present.

**CMC MEMBERS PRESENT**

Tony Khawaja, Collier Traffic Ops, Chairman

Karen Homiak, Citizen Advisory Committee (CAC) Representative

David Rivera, City of Naples

Alison Bickett, City of Naples

Tim Pinter, City of Marco Island, Vice-chairman

Dr. Mort Friedman, Bicycle/Pedestrian Advisory Committee (BPAC) Representative

Don Scott, Lee MPO

**CMC MEMBERS ABSENT**

Dan Summers, Collier County Emergency Management

David Ogilvie, Collier School District

Ian Barnwell, Collier County Transportation Planning

Omar DeLeon, Public Transit and Neighborhood Enhancement (PTNE)

**MPO STAFF**

Anne McLaughlin, MPO Executive Director

Brandy Otero, MPO Senior Planner

Karen Intriago, Administrative Assistant

**OTHERS PRESENT**

Victoria Peters, Florida Department of Transportation (FDOT)

Pierre Beauvoir, Collier Traffic Ops (alternate for Tony Khawaja)

**3. Approval of Agenda**

*Ms. Bickett moved to approve the Agenda. Second by Mr. Pinter. Carried unanimously.*

**4. Approval of the November 28<sup>th</sup> Meeting Minutes**

*Ms. Homiak moved to approve the November 28<sup>th</sup> Meeting Minutes. Second by Mr. Rivera. Carried unanimously.*

**5. Open to the Public for Comment on Items not on the Agenda**

None.

**6. Agency Reports**

**A. FDOT**

**Ms. Peters** noted that the Tentative Work Program is open for public comment until January 30<sup>th</sup>. In between the draft Work Program and the Tentative Work Program, FDOT made a few changes. The first was to incorporate a PD&E for I-75 and Pine Ridge Rd. Ms. Peters stated that in addition to the right-of-way phase for SR 951 from Manatee Rd. to North of Tower Rd, the construction phase was also funded for thirteen million dollars. The construction phase for SR82 from Gator Slough Lane to SR29 was moved from FY19 to FY20. The new letting for the project will be July 1<sup>st</sup>.

#### **B. MPO Director**

**Ms. McLaughlin** noted that the MPO posted a Principal Planner position and encouraged committee members to notify anyone they know that might be interested to apply.

#### **C. Other Agencies**

**Mr. Pinter** stated that the David Harden is the new interim manager for the City of Marco.

### **7. Committee Action**

#### **A. Election of Chair and Vice- Chair**

*Mr. Pinter reelected Mr. Khawaja as Chair. Second by Ms. Homiak. Carried unanimously.*

*Mr. Khawaja reelected Mr. Pinter as Vice- Chair. Second by Ms. Homiak. Carried unanimously.*

#### **B. 2019 Congestion Management Project Review and Prioritization**

**Mr. Khawaja** noted that the committee wanted a commitment from the Florida Highway Patrol (FHP) regarding the project submitted from the Lee County MPO that used Lidar Mapping technology and asked Mr. Scott if he heard from FHP. **Mr. Scott** stated that after the meeting with FDOT it was determined that there are still a lot of questions regarding what FHP may be utilizing. It was noted that this project should be listed on the priorities as a placeholder to raise awareness on the technology. A discussion ensued regarding County projects that were inadvertently left off the list.

**Mr. Pinter** noted that in the agenda packet there isn't a project that reflects 1.3 million for the County. He noted that in the packet that he received for the County only four projects are reflected not six. Mr. Pinter stated that if three projects are added after removing the 1.3 million it leaves the County with three million which makes the project list over budget.

**Mr. Pierre** noted that the Advance Travel Information System should have been removed from the County's project list; it is a total of \$950,000. Mr. Pierre stated that in the agenda that was provided the Travel Time and Performance Measure project is missing which is for \$700,000. This will equal \$2,329,449 for County projects. Mr. Pierre stated that the Fiber Optic and FPL Infrastructure was added to provide network connectivity to traffic signal cabinets, located at fire/EMS stations and to midblock ITS systems.. The second project that was added is the Adaptive Traffic Control Systems along Pine Ridge Rd. from US41 to Logan Blvd. This system will improve travel time reliability and reduce congestion. The third project is to update the school flasher system, the current system has been in use for over twelve years and needs to be replaced with newer technology. This update will provide an easy way to monitor school beacon status and health, such as AC power and battery backup. It will also allow for remote configuration of schedules using cellular modems. The final project is the vehicle traffic count stations. The purpose is to improve vehicle traffic count collection methods throughout Collier County, identifying current and future areas of congestion and making this data available to Traffic Operations, County Planners and Developers. The County has identified 34 locations which would benefit from vehicle traffic count automation.

**Ms. McLaughlin** noted that at the previous committee meeting it was determined that committee members are in favor of supporting agency priorities. The Committee prioritized Congestion Management Projects as followed:

1. City of Naples - Crayton Rd. and Harbour Dr. Intersection Improvement
2. Collier County – Fiber Optic and FPL Power Project
3. Collier County - Travel Time and Performance Measurements
4. City of Naples – Mooring Line Dr. Crayton Rd. Intersection Improvement
5. City of Naples - Golden Gate Pkwy. and US41 Intersection Improvement
6. Collier County – Updated School Flasher System
7. Collier County – Vehicle Count Station Update; 31 locations
8. City of Naples – Bicycle Detection System Project
9. Collier County – Adaptive Traffic Control System; 15 intersections on Pine Ridge Rd.
10. Lee County – Lidar Mapping Equipment for Crash Investigation

**Ms. Peters** stated that if there is a project that the agencies would like to see programed for FY24 instead of FY25 they would probably be able to do so. There were funds returned to the SU box for FY24 after the County absorbed the project on Pine Ridge Rd from Whippoorwill Rd. to Napa Blvd and it was deleted from the Tentative Work Program.

**8. Reports and Presentation (May Require Committee Action)**

None.

**9. Member Comments**

None.

**10. Distribution Items (No presentation)**

**11. Next Meeting Date**

*March 20, 2019 at 2 p.m.*

**12. Adjournment**

*With no further comments or items to attend to, Mr. Khawaja adjourned the meeting at 3:00 p.m.*

**REPORTS AND PRESENTATIONS**  
**ITEM 8A**

**Transportation System Performance Report Status and Kick-off**

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**OBJECTIVE:** For the Committee to receive an update on the Transportation System Performance Report Status and review the data needs for the project and the proposed project schedule.

**CONSIDERATIONS:** The Congestion Management Process 2017 Update (2017 CMP Update) calls for the preparation of a Biennial Transportation System Performance Report. The MPO Board approved Tindale Oliver's proposal at their November meeting. Staff has met with the consultant for an internal project kick off and decided that the best way to proceed was to have a formal kick off with the Congestion Management Committee at the March meeting. The consultant will provide a summary of the scope and discuss data needs with the committee.

**STAFF RECOMMENDATION:** That the Committee discuss the data request and the proposed project schedule and provide the consultant feedback.

**Attachments:**

1. TSPR Scope of Services
2. Tindale Oliver Data Request
3. Proposed Schedule

Prepared By: Brandy Otero, Senior Planner

## Collier Metropolitan Planning Organization (MPO)

Project Number: 33557.5.2.1

### SCOPE OF SERVICES

## Transportation System Performance Report

TO Project # 0215032-03.18

#### A. Background

The Congestion Management Process 2017 Update (2017 CMP Update) calls for the preparation of a Biennial Transportation System Performance Report, described in the CMP as follows:

*“The Biennial Transportation System Performance Report (Performance Report) will lay the foundation for project identification and prioritization in accordance with Federal guidelines. The Performance Report will provide a thorough system assessment to identify where priority investments should be made. The Performance Report will include an analysis of newly implemented CMS/ITS projects based on the performance measures identified in the CMP as specifically assigned to each funded project.*

*The Performance Report will recommend both short- and long-term projects to address congestion. The CMS/ITS committee [since renamed “Congestion Management Committee (CMC)] will use the report as a basis for recommending project priorities that in all likelihood, will have associated costs that are beyond the reach of the MPO’s limited TMA funds allocated to the CMS/ITS “Box”. The CMS/ITS committee will use the Performance Report to develop projects for the timeframe that covers the next five-to-ten years out, to propose studies and solutions that go beyond the MPO’s current 5-year TIP.*

*The first iteration of the Biennial Performance Report is expected to identify and prioritize projects for the CMS/ITS Committee to develop in more detail and submit for future funding. It is likely that the first Performance Report will indicate procedural changes that may require amending the 2017 CMP Update. Amendments, if required, will be brought to the MPO Board for adoption.”*

#### B. Scope of Services

##### Task 1: Project Initiation and Project Management

The Consultant will provide over-all project management, QA/QC review of documents and provide support services as needed. Activities include a project kick-off meeting, management and oversight of the activities and products produced by the consultant team members. Coordination between the MPO Project Manager and the Consultant Project Manager will be coordinated for proper management of the schedule and project delivery schedule.

##### Task 2: Public Involvement

The consultant will develop a Public Participation Plan (PPP) for the project. The PPP will provide on-line opportunities for public input by establishing an interactive project web site and use of social media. The consultant will provide on-line surveys, prepare necessary materials, exhibits, presentations, and

handouts for meetings with the MPO Board and Advisory Committees. One general public meeting will be held, with outreach conducted to the MPO's Advisory Network. Staff will provide the Consultant with the MPO's Advisor Network email list-serve. Consultant will take minutes and record verbal and documented comments from the public, staff and elected officials and keep a record of how comments were addressed. Staff may choose to supplement the consultant-supported outreach by giving presentations to local homeowner's and civic associations and by hosting informational booths at special events. The MPO will follow its Government to Government Public Outreach policy to conduct outreach to Tribal entities. MPO staff will present to the CAC.

Consultant will present to the following entities at least once during each of the two phases in the development of report and action plan. Anticipate presenting at six meetings:

- 2 MPO Board Meetings
- 2 Congestion Management Committee Meetings
- 2 Technical Advisory Committee Meetings
- 1 Public Meeting/Advisor Network list-serve

### Task 3: Baseline Conditions

Consultant will expand Collier County's most recent (2018) Annual Update & Inventory Report/Capital Improvement Element Schedule (AUIR) to include congested conditions within the City of Naples, City of Marco Island and Everglades City for arterial and collector roads and bridge facilities. The AUIR captures committed improvements through FY23 and projects deficiencies out ten years to 2028 (in two five-year increments.) The System Performance Report will extend the AUIR's analysis to include committed improvements through FY 2024 to coincide with the FDOT FY 2019-2024 Work Program/MPO TIP (pending June 2018 adoption) and expand the analysis of projected deficiencies within the city limits. The Consultant will coordinate with FDOT on incorporation of the District 1 LOS spreadsheet. Where necessary, future volumes will be interpolated based on historic growth rates for conducting analysis of the committed transportation network.

### Task 4: Identify Data Gaps

*Review of available data sources and data gap coordination* – The consultant will conduct a review of existing data sources from the CMC member agencies and MPO planning partners. This coordination will review perceived data gaps and identify opportunities for partnering and addressing these gaps. Documentation of these findings will be incorporated into the Phase 1 report

*Evaluate Data Resources and Monitoring Practices* – Consultant will identify data gaps that are essential to fill; and recommend projects to close the gaps. The Congestion Management Committee (CMC) identified several critical data gaps while developing the 2017 CMP Update, to be used as a starting point including intersection turning movement counts, intersection LOS, Travel Time Reliability (Excessive Delay, Person Miles Traveled on non-interstate NHS), crash data/congestion overlays/incident delay, school congestion, incorporation of transit ridership, monitoring effectiveness of ITS and consideration of automated/connected vehicles.

- Intersection LOS and Intersection Control Evaluation (ICE) Analysis - The Consultant will conduct operational reviews at five critical/key intersection locations, including the collecting of turning

movements during peak periods. It is envisioned that these locations will be identified through the public involvement process or area already known based on first-hand accounts. The analysis of intersection level of service (LOS) will be conducted using Synchro. Although many major intersections in Collier County are built-out or are right-of-way constrained, the FDOT approved Intersection Control Evaluation (ICE) process for evaluating alternative intersection designs such as roundabouts, diverted left turns, and median U-turns will be utilized. The analysis of these five intersections includes use of the ICE process to identify candidate solutions for potential further evaluation.

- Travel Time Reliability - The requirement for MPO's to address travel time reliability for meeting federal performance measures has been limited to the National Highway System (NHS). In Collier County, the NHS consists of I-75, US 41, SR 29, CR 951 between I-75 and US 41, and the intermodal connector of Pine Ridge Road and Airport-Pulling Road from I-75 to the Naples Municipal Airport. The incorporation of travel time reliability for county arterial and collector roadways will use Streetlight data as the preferred application based on implementation experience. This approach includes researching and understanding what (if any) capabilities Collier County currently has for collecting data. During the initial data gap review phase, the consultant will coordinate with Collier County on data availability and complete an evaluation of data gaps and opportunities.
- Crash Data / Congestion Overlay – effects on crashes and other non-recurring causes cannot be measured through traditional LOS methodologies. Using the Collier County Crash Data Management System, the consultant will identify locations where delay associated with traffic incidents are likely to be the greatest. Using geospatial location information of crash records, the consultant will identify the top-tier locations at which crashes occur routinely. Application of the Safety Strategy Matrix, implementation recommendations will be made for these locations as part of the Action Plan developed in Task 5.
- School Related Congestion - Selecting strategies to address school-related congestion issues requires an evaluation and assessment of the unique circumstances that surround each school. The Institute of Transportation Engineers (ITE) published a Safe Routes to School briefing sheet that identifies strategies to improve traffic operations and safety. In this briefing sheet, congestion is one of four issues addressed by ITE. Filling this data gap includes coordinating with MPO, Collier County, and School Board transportation staff to identify the top-tier locations of concern and identify a future study that addresses school transportation and safety. Strategies include considerations for reconfiguring drop-off and loading areas at existing school locations, coordination of connected land uses for future school sites, and/or identifying incentives for students who walk, bike, or carpool to school.
- Integration of transit ridership – The consultant will coordinate with MPO Staff and CAT on roadways with the highest transit ridership. This analysis will consider the person trips served by transit as a percentage of the total traffic being served within the corridors. As part of the Phase 1 report in Task 6, summarization of transit service on congested corridors will also be reported as a measure of transportation options and alternatives that are being provided.
- Integration of ITS and ACES – The consultant will report on the current corridors with ITS applications and deployment of ATMS. Through coordination with agency representatives of the CMC, an assessment of the impacts for integrating connected vehicle strategies into the transportation system will be considered and documented.



*Recommend Projects Needed to Fill Data Gaps* – As a result of the data evaluation and analysis, the Consultant will identify projects needed to fill data gaps. This will include a brief project description, estimated costs and a recommended staging plan for completing these studies in relation to other on-going planning efforts such as the MPO’s responsibility to complete the 2045 Long Range Transportation Plan for adoption by December 2020.

#### Task 5: Develop Action Plan

The purpose of selecting corridors for analysis in the CMP is to identify specific projects or strategies that will help reduce congestion on roadways that currently are congested or that are nearing congestion, specifically projects or programs that can be undertaken in the short term for relatively lower costs. The congested corridors map developed in Task 3 will be reviewed, and corridors will be selected for additional screening based on existing and projected congestion levels. Corridors generally are selected by following four steps, which include reviewing congested corridors to determine if:

1. a project is included in the five-year work program
2. a project is included in the second five years of the AUIR
3. there are congested corridors that do not have a project in the five-year work program or AUIR
4. there are corridors approaching congestion for which improvements can be identified

Using the 2017 CMP guidelines, the baseline conditions report will include an evaluation of congested roadways using an expanded strategy screening process. The consultant will coordinate with the MPO and the CMC to identify potential additional strategies for inclusion as part of the strategy screening and evaluation process.

Consideration of reliability measures is a new requirement of MPO’s under MAP-21. Although federal system performance measures are applied only on the NHS, the MPO may want to consider to what extent integration of the reliability measures is beneficial for the CMP. Using Streetlight data, origin and destination pairs will be used to identify travel times and reliability. As the trip data are associated with mobile and cellular technologies, availability of data points are greatest in more dense urban areas and become sporadic in rural locations. Identifying tiered recommendations for reliability using Streetlight data researched under Task 4 will be based on future cost of implementation. Project recommendations developed using these data could be used to determine/prioritize future congestion management projects.

Based on the results of this assessment, recommendations on congested corridors and locations will be identified and prioritized for implementation. Prioritization criteria will be developed which consider applicability of the following factors

- Cost/Benefit Analyses (identify projected performance)
- Cost Feasibility based on projected revenues (MPO can supply)
- Environmental Justice Screening
- Expansion of Mode Choice
- Opportunities to Support Local Land Use Policies/Comprehensive Plans
- ETDM Screening

- National System Performance Measures per 23 CFR § 490.507 (Travel Time) and §490.607 (Freight)

Using the results of this analysis and prioritization of strategies and recommendations, an Implementation matrix will be developed that considers such factors as

- Implementation considerations
  - Short, Medium and Long-Range
  - Low, Medium and High Cost
- Recommend funding sources
- Methodology for monitoring projected performance

#### Task 6: Documentation

This task consists of developing the Phase 1 Baseline Conditions Report along with project recommendations identified for filling data gaps. The Phase 2 Action Plan will be developed under this task as well and will include a review of potential congestion mitigation strategies and an implementation plan. Coordinated with the performance measures listed in the 2017 CMP, a matrix of monitoring activities will be included that identifies responsible agencies and required activities. The consultant will coordinate with MPO staff for the delivery of related project files developed through this scope of work and review of any required data and mapping applications used for developing the Transportation System Performance Report and Action Plan.

#### **C. Time of Completion**

It is anticipated that the work provided for in this task will be completed by June 30, 2020 based on the following schedule of activities.



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GREAT INSIGHTS. GREATER OUTCOMES.

To: Brandy Otero, Senior Planner, Collier MPO  
 From: Wally Blain, Senior Project Manager, Tindale Oliver  
 Date: March 12, 2019  
 RE: Data Needs for the Transportation System Performance Report and Action Plan

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This memorandum identifies the initial list of data required for completing the System Performance Report. Also outlined below are discussion items for review with the Congestion Management Committee in determining the expected and desired outcomes from this analysis. At this time, we request assistance from the MPO and members of the CMC in providing the necessary data described below:

**General topics of discussion:**

- Prioritization Factors- In developing the action and implementation plan what should be continued or revised with the CMC current prioritization process?
- Data Gap – Where are there perceived data gaps that should be filled?
- Reliability – Expectations from Analysis

**Baseline Conditions:**

- Recent turning movement counts been collected
- County AUIR and City LOS data (GIS files and tables)
  - o Segment shapefiles
  - o LOS attributes
  - o Current / historic traffic counts
  - o Growth Rates
- FDOT District 1 LOS Spreadsheet
- Committed Projects in CIP (availability of GIS data)

**Crash Data:**

- Access to County CDMS
- Factors of most importance for committee – angle vs rear-end.

**School Congestion:**

- Concern for public schools only? Charter and private schools
- Busing plans, areas not served – expectations of where walking would occur
- Most congested locations and areas of concern

**Intersection congestion:**

- Locations where cameras are in place for easy review of data
- Proposed locations for conducting ICE analysis

**ITS corridors:**

- ATMS or adaptive control intersection locations
- Information on planned expansion.
- Thoughts on integrating connected vehicle technology through expansion of ATMS



