

DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

Update on Congestion Management Process(CMP)

Yanping Zhang

Jaehoon Kim

CMP Sub-Committee Meeting

☐ Topics of the Subcommittee Meeting, March 21st, 2022

- ❖ CMP Study Area and Corridors (up to 20 Corridors)
- ❖ CMP Transit Network/Routes
- ❖ Data Collection

☐ Final Determination after the release of 2020 Census Urbanized Area.

Consultant Selection Process

Request For Information	19-Apr-22	All On-call Consultants
Pre-Proposal Meeting	26-Apr-22	12 Consultants
Proposal Submission	17-May-22	4 Consultants
Consultant Interview	May 26 - June 9, 2022	3 Consultants
Consultant Selected	15-Jun-22	Baseline Mobility (w/ Kittelson & Associates)
Negotiation	17-Aug-22	

Data Collection and Process - 1

❑ Traffic Count Data Collection

- ❖ Annual Average Daily Traffic (AADT): 820 Locations from NCDOT
- ❖ Average Weekday Traffic (2021) of MPO: 779 Locations & AADT conversion Completed
- ❖ Non-Motorized – Bike and Pedestrian: 175 Locations

❑ Travel Time/Speed Data

- ❖ Data Source: Regional Integrated Transportation Information System (RITIS)
- ❖ National Performance Management Research Data Set (NPMRDS)
- ❖ Historical Data and Analysis Applications available.

❑ Accident (Crash) Data

- ❖ Data Source: NCDOT, Obtained the 2018-2021 data

Data Collection and Process - 2

❑ Transit Data

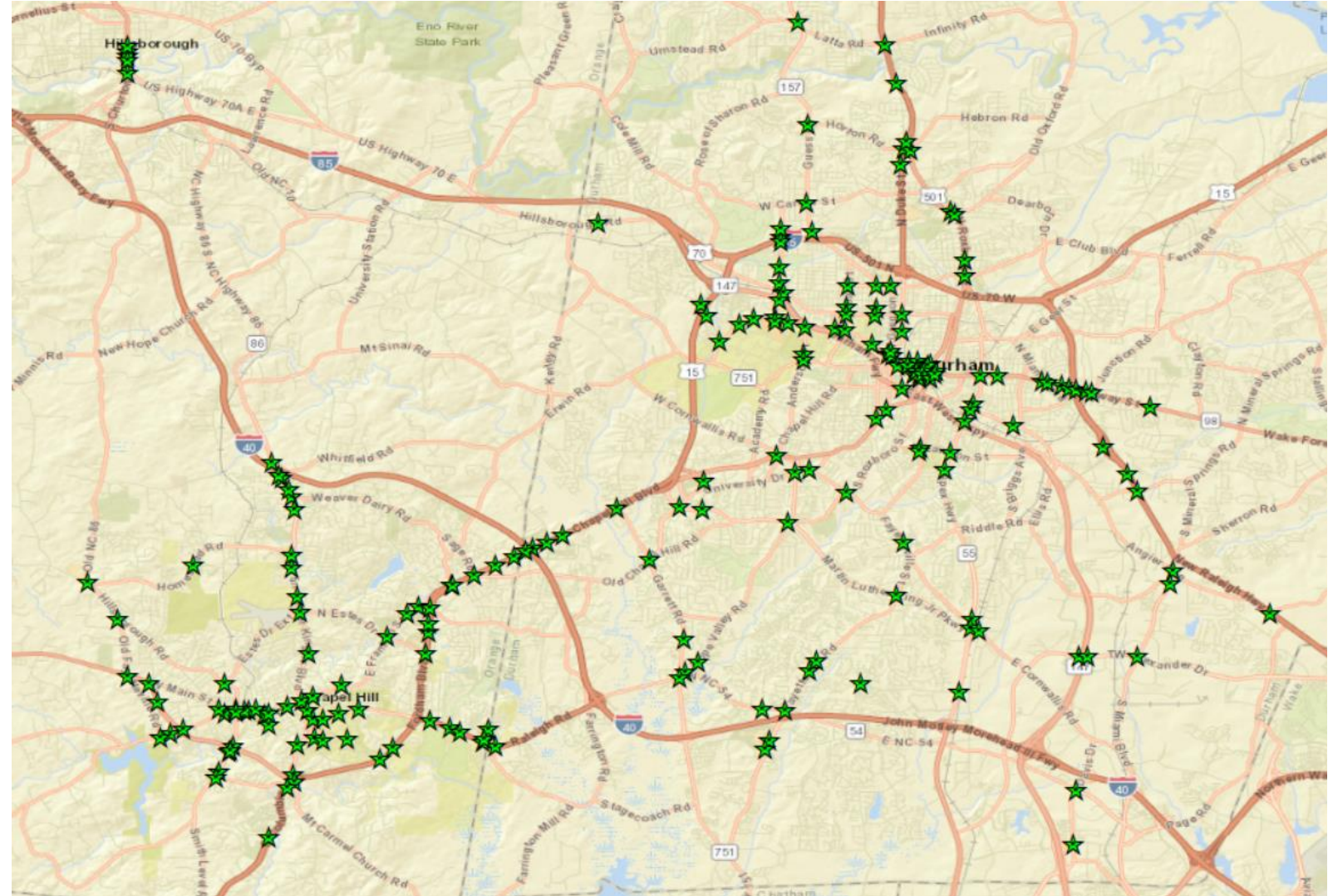
- ❖ Automated Passenger Counter (APC) Data
- ❖ General Transit Feed Specification (GTFS) Data
- ❖ National Transit Database (NTD)

❑ Other Related Data

- ❖ Streetlight Data – Big Data for Mobility
- ❖ Socioeconomic Data: Census, Bureau of Transportation Statistics
- ❖ Air Emission Calculation by Corridor
- ❖ Layers of Greenway, Trail, Multipurpose lane, & Sidewalk
- ❖ Triangle Region Model (TRM) Data

Intersection Data Collection and Analysis

- ❑ Intersection Data and Level-Of-Service (LOS) Analysis
- ❖ Turning Movement Counts (of MPO): 190 Intersection
- ❖ Intersection Signal Plan and Synchro Files



CMP Work Plan

- ❑ CMP Goals/Objectives and CMP networks, October, 2022
- ❑ Consulting Project Kick-off, October, 2022
 - ❖ Joint development of the Congestion Mitigation Strategy
 - ❖ CMP Report and Mobility Report Cards (MRC)
- ❑ CMP Networks and Routes, November, 2022
- ❑ Collecting Data, Process and Analysis, December, 2022
- ❑ Congestion identification/evaluation and Mitigation Strategy, February, 2023
- ❑ CMP Report & MRC due by the end of June 2023

Questions?

Yanping Zhang, yanping.zhang@durhamnc.gov