

TDOT Long Range Planning

# Data Tour – View from the Road



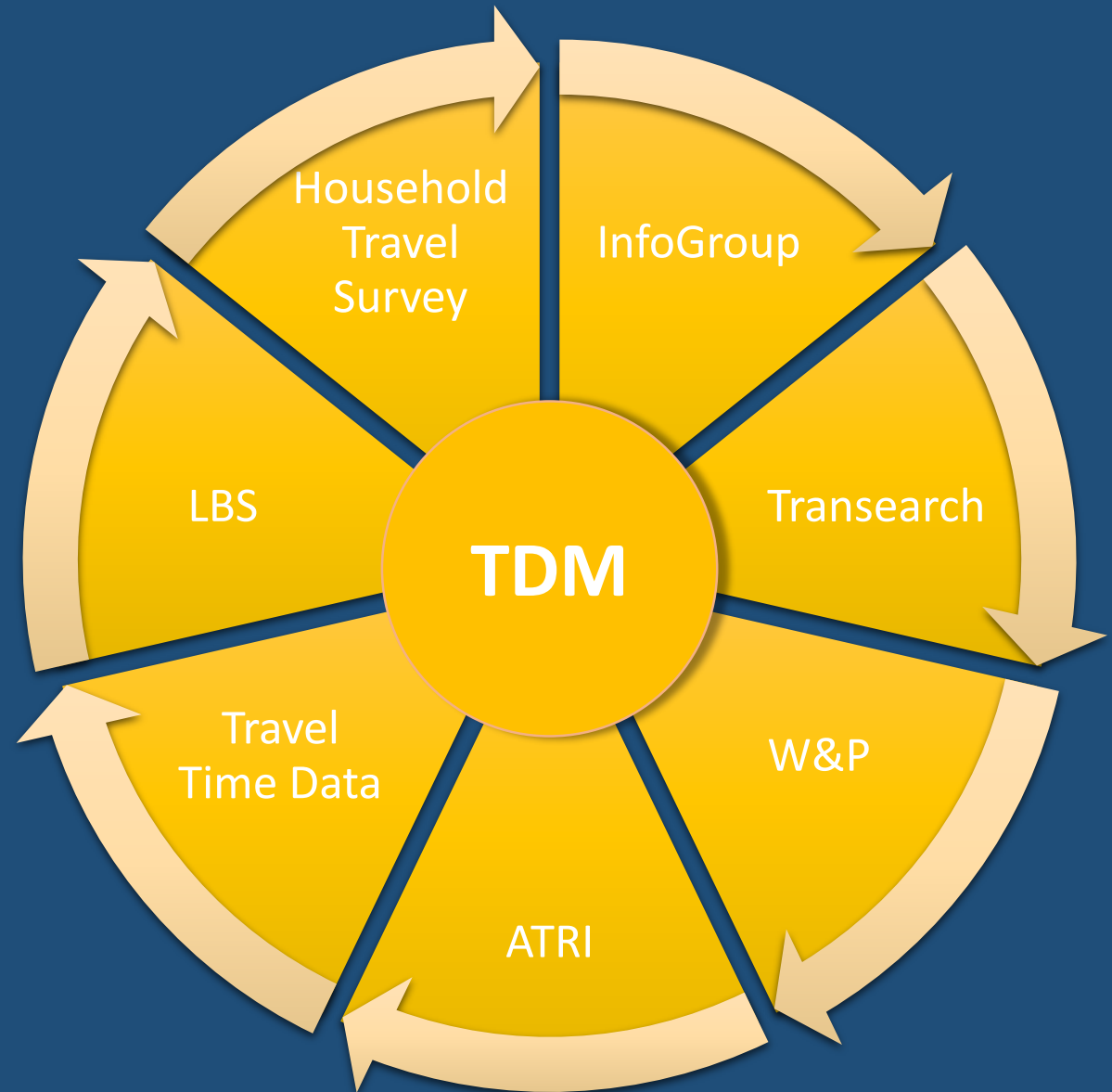
# Background

- TNMUG Data Issues Discussion over 15 years
- MPO Data Collection/Procurement History
- TDOT Data Collection/Procurement History
- MPO Conference Session on Data Sharing
- Action Desired: But a Plan is Needed

# Process

- Meet Face-to-Face
- Start with MPOs & Include Partners
- Structured but Open Discussion
- Capture Information Exchanges
- Analyze and Summarize Notes
- Request Feedback
- Report “Findings”

# Data Needs



# Hot Topics

- Traffic Counts
  - Turning movement counts
  - Bicycle and Pedestrian Counts
  - ADAM/TN-TIMES
- Different Plan Cycles
- Data Working Group
- Standardized Model Platform

## Data & Procurement Recommendations

- Travel Time/Speed
- Behavior or Household Travel Survey
- Model Networks
- Freight
- Origin – Destination and External
- Socioeconomic Data
- Employment
- Traffic Volume Counts
- Vehicle Classification Counts
- Bicycle Ped Used and Demand
- Transit Ridership

## Travel Time & Speed

- Bi-annual purchase of travel time data.
  - Large MPO & State Level
- Continued training regarding the strengths and limitations of the INRIX and HERE data including the tools.
- Conduct sample travel time runs in various types of corridors across the State.

## Behavior or Household Travel Survey

- It is recommended that the four large MPOs refresh or replace their HH travel survey data approximately every 10 years.
- Smaller MPO models could benefit greatly from a "standardized" data collection process that represent each of the seven small MPO areas.



## Model Networks

- It is recommended that communication with MPOs continue to be developed.
- Access and update to TRIMS and its evolution will continue to be provided.

## Freight

- Transearch data is recommend to be purchased as part of the statewide model update.
  - Have consultant provide processing and analysis of the data for MPOs and TDOT.
- ATRI truck flow data is recommended to be purchased periodically.
  - This will be provided to interested MPOs.
  - Will be used in the development of standardized small area models.

## Origin – Destination and External

- It is recommended that TNMUG staff should conduct a review of the literature and develop a brief “white paper” on the use Cell Phone Data for O/D and External Travel modeling in 2020.
- Automatic License Plate Reader (ALPR) Surveys should be considered only if the importance of accurate through movements greatly increases in Tennessee.

## Socioeconomic Data

- It is recommended that TDOT continue periodic training regarding Census Data in general and the CTPP data.
- Via the Data Working Group initiate a conversation with the State Data Center regarding population forecast plans and their other data activities.
- Woods and Poole Population Forecast data should continue to be purchased by TDOT.

## Employment

- Info Group Maintenance
- It is recommended that a research project be developed to further explore how this data can benefit the MPOs and the State.

## Traffic Volume Counts

- Maintain dialog with MPOS regarding ADAM – TN-TIMES transition.
  - Training for the new program should be provided to the MPOs as soon as it is feasible. TDOT will continue to develop and provide additional methods of accessing traffic history data through online or interactive mediums such as the traffic history [webmap](#).
- TDOT should increase its transparency regarding data collection procedures used in the past, currently and those that are planned.
- Focused outreach should be made to each MPO to request input regarding the count locations in their region and the possibility of collaborating on data collection.
- Options for an easy purchase mechanism by MPOs for supplementary counts should be investigated.

## Vehicle Classification Counts

- It is recommended that TDOT maintain an open discussion regarding ATRs and their locations
- There is interest in turning movement counts but it is not widespread enough to warrant a statewide purchase and more is suited for an on-call contract.

## Bicycle Ped Use and Demand

- TDOT's new non-motorized count Active Transportation Counts Coordinator
  - Develop and provide guidance regarding best practices for bike/ped traffic counting.



## Transit Ridership

- It is recommended that the long range planning and multimodal planning divisions discuss the value of gathering additional information regarding data needs for transit planning.

# Thank you

## ○ MPOs

### ○ Bristol

- David Metzger
- Rex Montgomery

### ○ Chattanooga

- Karen Rennich
- Yuen Lee
- Melissa Taylor

### ○ Clarksville

- Stan Williams

### ○ Cleveland

- Greg Thomas
- David Sheely

### ○ Johnson City

- Glenn Berry
- Mary Butler

### ○ Kingsport

- Bill Albright
- Lesley Phillips
- Michael Thompson

## ○ MPOs

### ○ Knoxville

- Jeff Welch
- Mike Conger

### ○ Lakeway

- Rich DesGroseilliers

### ○ Memphis

- Pragati Srivastava
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- Mavrick Fitzgerald

### ○ Nashville

- Max Baker
- Hary Prawiranata
- Sean Pfalzer

## ○ Others

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- Ian Preston
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### ○ FHWA

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- Melissa Furlong
- Pamela Heimsness