

# Technical Analysis Unit (TAU)



**Bureau of Commuter & Mobility Strategies**

**Division of Statewide Planning**

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# TAU - Staff Members



CIPGA

**Sudhir Joshi – Section Chief**



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# TAU - Success Story....



CIPGA



- **BRS Document:** Road map for the CMS-21
- **PPSUITE:** Runs in the Background  
Planning & Engineering Data Inputs – Traffic Counts, Roadway Geometry, CMS Network
- **SAR PROCESS:** Information Technology, Tables and Fields, Four-step OIT Approval Process
- **TransINFO:** CMS-21 Subject Area - Data Outputs – Traffic Volumes, Contact us for additional data needs.

# TAU - Functions

## • Mobility Problem Statements Development Process

- Collaborate with Internal and External Stakeholders
- Bike/Ped, Safety, TSM/Traffic Operations, CPM
- MPOs, NJTA, PANYNJ, NJ Transit

## Utilize State of the Art Tools

- CMS-21
- VPP Suite (University of Maryland)
- SPATEL (TRANSCOM)

# TAU - Functions



- **Fulfill Data Requests**
  - **Problem Statement Project Scoping Screenings**
  - **Project Assessments for CPSC/CPC meetings**
  - **Traffic Volume and other Congestion data using CMS-21**
- **SPR Work Program**
  - **Develop SPR Work Program for TAU**
  - **Report Activities to FHWA**
  - **Budget Development for TAU**

# TAU - Functions



- **TSM & Planning Collaboration**

- **Goal: Achieve more efficiency without widening**
- **Collaboration meetings held quarterly**
- **TSM&O : Support MAP-21 System Performance Measures**
- **Support Mobility Problem Statement Development Process**

- **Capital Investment Strategy Document**

- **Prioritize & allocate funding for Mobility and Congestion Relief Projects**
- **Five subcategories: Major Capacity Increases, Operational Improvements, Bike/Ped, Demand Management, TSM&O**



# MAP-21

## Moving Ahead for Progress in the 21<sup>st</sup> Century Act

### System Performance Measures: NPRM # 3 - FHWA 23 CFR 490

- **MAP-21 Federal Transportation bill is very complex and was passed before the current bill**
- **Comments submitted to Federal Docket on August 20, 2016**
- **Final Rule to be published by October 1, 2017**
- **Initial State Performance report to be submitted to FHWA by October 1, 2016**

## Cont'd....



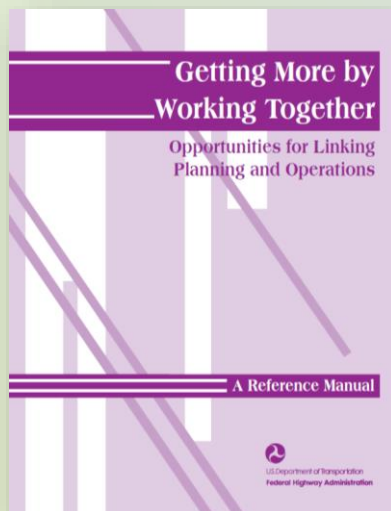
# Performance of Interstates and Non-Interstate NHS

- **Use of Real Time/Archived Traffic data: NPMRDS (HERE) and INRIX, such as Travel Speeds and Travel Time Data**
- **Useful Tools: VPP Suite, SPATEL, iPeMS**
- **Enormity of the task: There are approximately 5071 TMCs in the NPMRDS dataset from March 1, 2016 - July 31, 2016**
- **Examples of Major Issues: NPMRDS Data Gaps and Frequency of Updates, Conflation, Reporting Segments, Coordination with Operating Agencies, Determination of Urbanized Boundaries, Target Setting, etc.**



# Complete Team

- Engage other Department units, agencies and organizations, such as TSM, MPOs, FHWA, NJ Transit, Port Authority NY&NJ, NJ Turnpike and Parkway Authority
- Formed Three Sub-committees
- Congestion Relief efforts through a Federal Primer



A Guidance Document for this effort...

[http://ops.fhwa.dot.gov/publications/lpo\\_ref\\_guide/hop05016.pdf](http://ops.fhwa.dot.gov/publications/lpo_ref_guide/hop05016.pdf)

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