

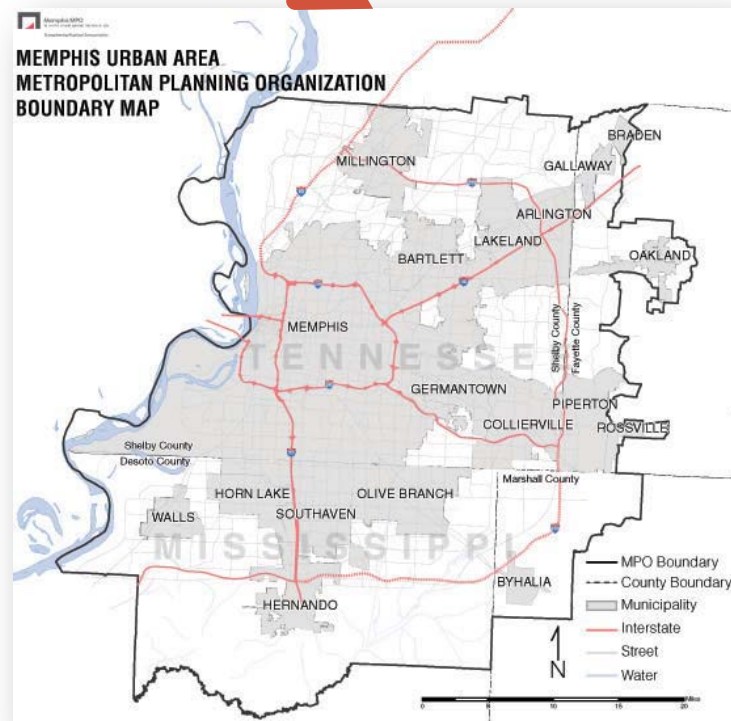
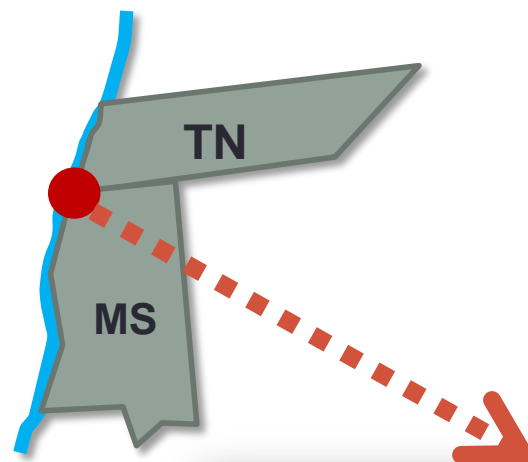
REGIONAL MODELS OF COOPERATION IN AIR QUALITY PLANNING

MEMPHIS URBAN AREA MPO

August 25, 2015

Background

- **Bi State MPO (TN and MS), includes 4 Counties :**
 - Entire Shelby Co , TN
 - Entire Desoto Co, MS
 - Partial Fayette Co, TN
 - Partial Marshall Co, MS
- **Population approx. 1.1 million**
- **Major Freight Hub**
 - 5 Class 1 Railroad
 - 4th largest Inland Port
 - 2nd busiest cargo airport in the world

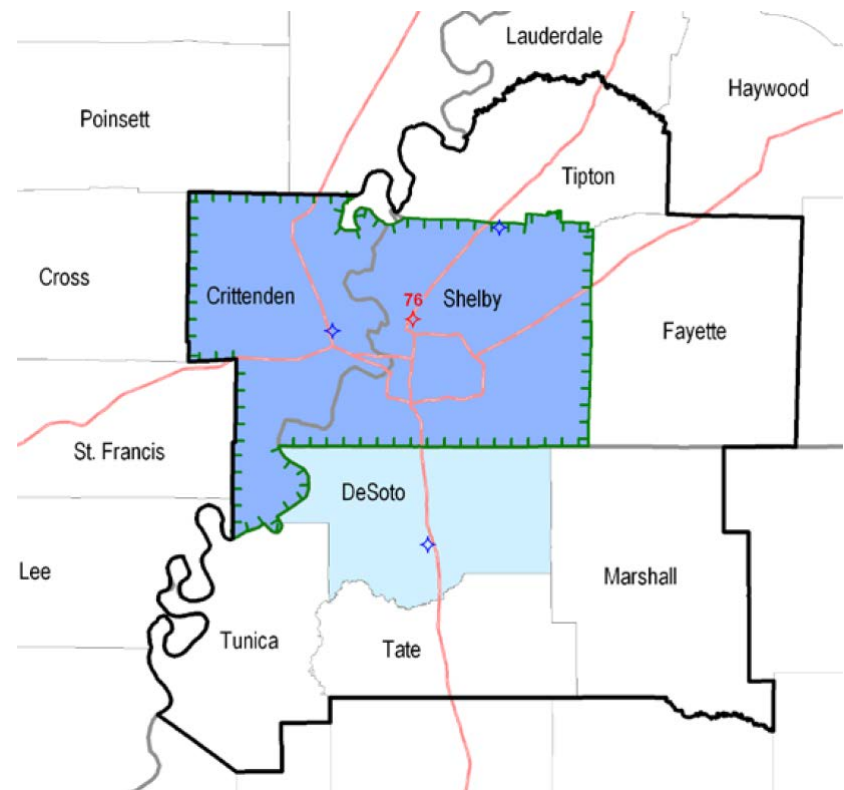


Background contd.

- **Memphis- TN-AR-MS MSA-**
 - 9 counties
 - Includes **2 MPOs**
 - Memphis Urban Area MPO (TN & MS)
 - West Memphis MPO, AR

Air Quality

- **Carbon Monoxide-** Shelby County, TN – in Maintenance, ends in 2017
- **Ozone-** Non- attainment under 2008 8 hr. Includes:
 - Entire Shelby Co and Partial DeSoto Co (**Memphis MPO**)
 - Crittenden Co (**West Memphis MPO**)

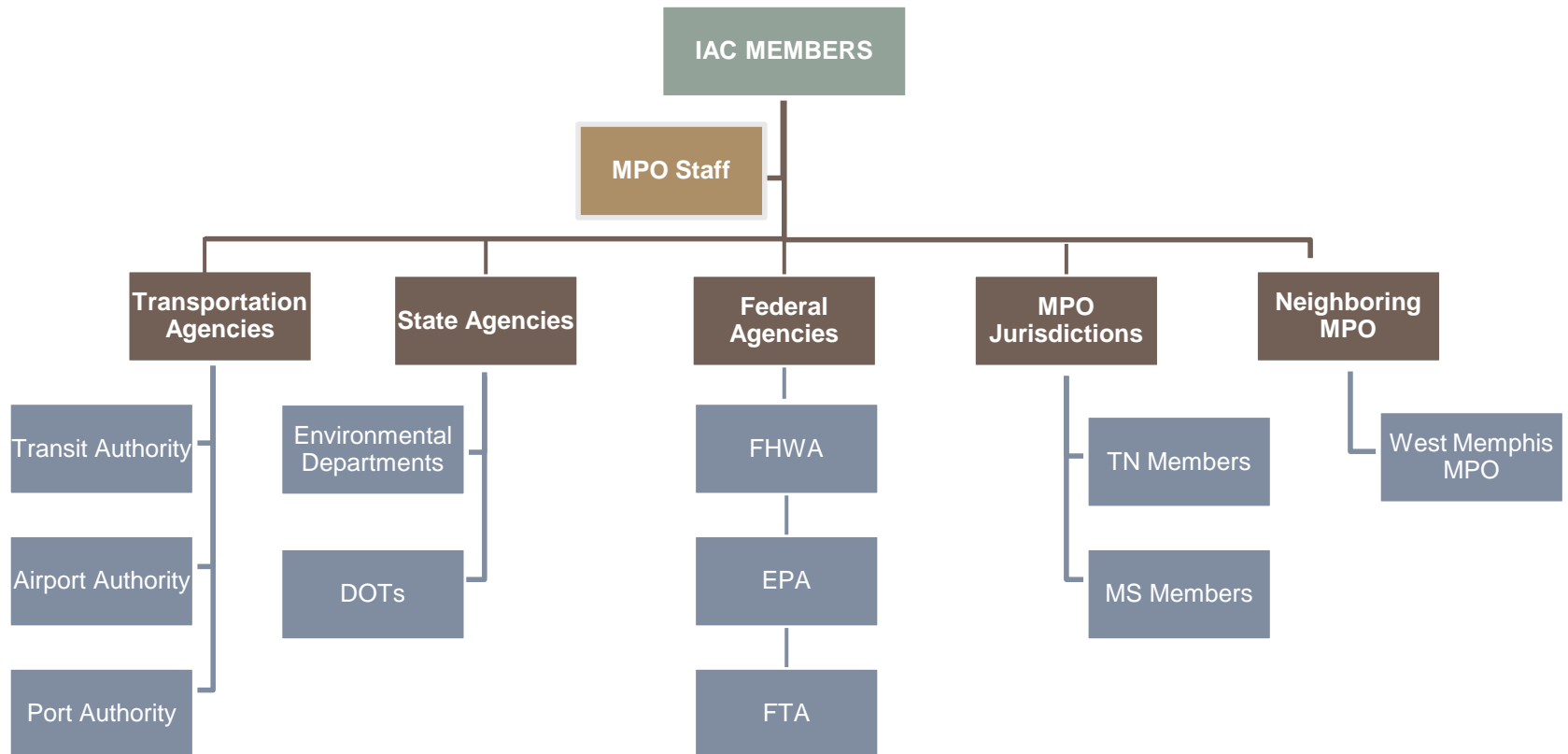


Legend

- EPA designated whole county as nonattainment
- EPA designated partial county as nonattainment
- County in separate ozone nonattainment area
- ◆ Monitor violating 2008 ozone NAAQS in 2008-2010
- ◆ Monitor attaining 2008 ozone NAAQS in 2008-2010
- ▭ 2009 Statistical Area boundary
- ▭ 1997 ozone NAAQS nonattainment area

Air Quality Coordination

- **Inter-Agency Consultation (IAC) Group:**



Air Quality Coordination cont.

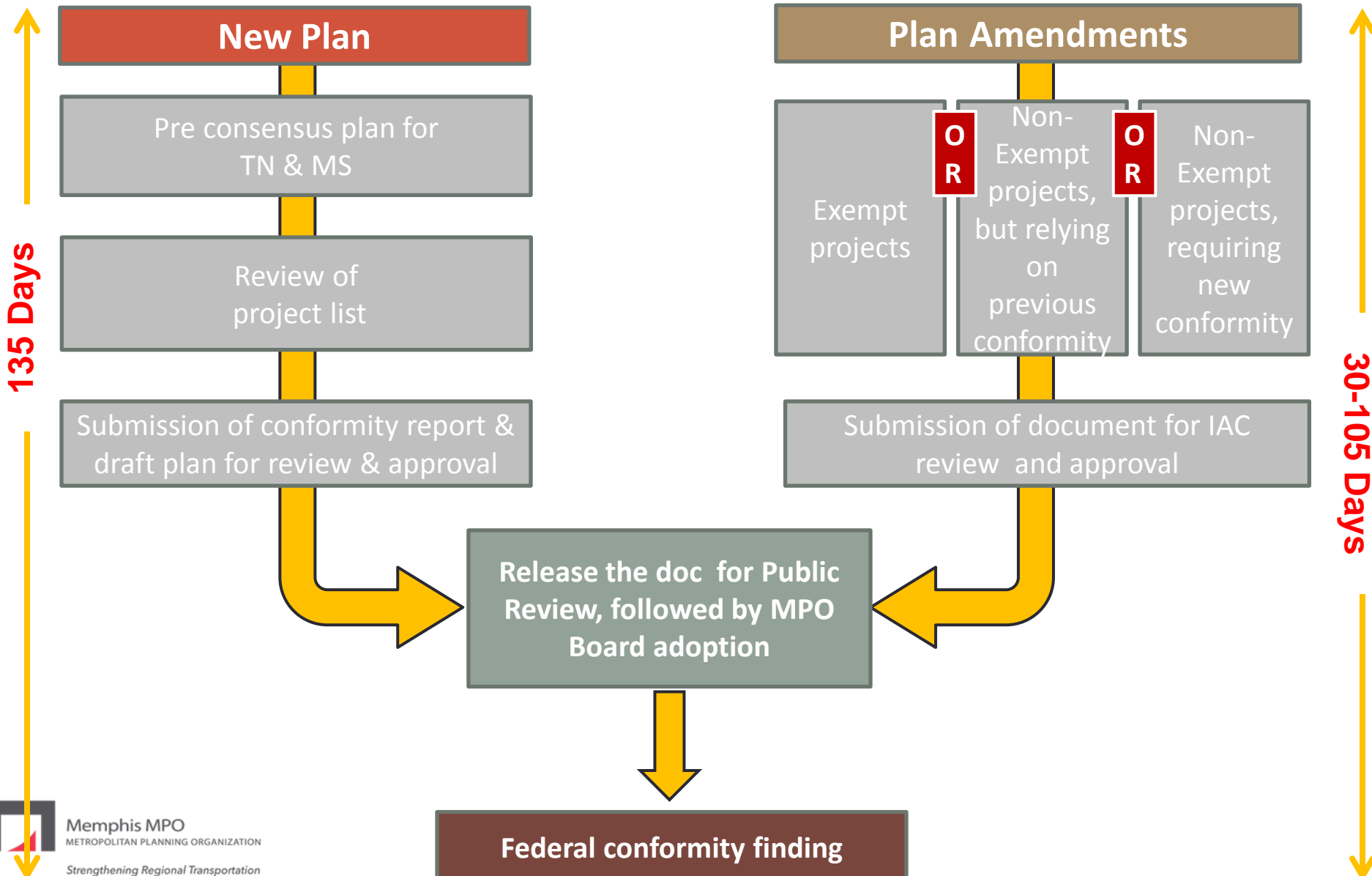
- **Requires consultation with IAC on:**
 - Development of New Plans
 - Amendments to the Plan
- **Cooperative and Consensus Based Approach**
- **MOU between the two MPOs:**
 - Separate **budgets**, separate **conformity process**, separate **plans**
 - But continued participation in each others planning process, incl. AQ
- **Budgets:**
 - No MPO level budgets (Shelby Co has budgets, Desoto Co does not)
 - Hence, separate conformity analysis

Air Quality Coordination cont.

- **Data:**

- Memphis MPO Regional Travel Demand Model (TDM)
- Memphis MPO Regional Land Use Model
- Some common Input
 - Metrological data from the airport
 - MOVES Model Technique (Inventory Method)
 - Age Distribution
 - Vehicle Type VMT
 - Some Model Years

Air Quality Process



Example of Documentation

Plan Development

TDOT Projects													
S No	Project Name	Termini	Horizon Year	Project Description	Status	Lead Agency	Length	Func Class	Can it be modeled?	ADT	Regionally Significant	L RTP Amendment Needed	Remarks
1	I-40	Interchange @ Canada Road	E+C	Interchange improvements including replacing bridges, reconstructing acceleration and deceleration lanes and tapers	Non-Exempt	TDOT	NA	Urban Interstate	Yes	83,350	Yes	No	
2	I-40	HPP-ID# 1359 and 4945, Interchange @ I-240 East of Memphis (Phase 2)	E+C	Construct I-40 flyover ramp	Non-Exempt	TDOT	NA	Urban Interstate	Yes	134,240	Yes	No	
3	I-55	Interchange at Crump Boulevard	2020	Interchange modification	Non-Exempt	TDOT	NA	Urban Interstate	Yes	48,173	Yes	No	
4	I-240	Interchange at Airways Blvd	2030	Interchange modification	Non-Exempt	TDOT	NA	Urban Interstate	Yes	147,032	Yes	Yes	Amend LRTP to remove reference to Plough Blvd in termini

Plan Amendments

August 2015 Proposed TIP Amendments - Memphis MPO															
S NO	TIP ID#	Lead Agency	County	Funding Source	Project Name	Proposed Changes	New Federal Funds				Old Federal Funds				Conformity Exempt
							2014	2015	2016	2017	2014	2015	2016	2017	
1	TN-IM-2011-01	TDOT	Shelby	NHPP	I-55 Interchange at Crump Blvd	Amend the project by adding \$31,500,000 in NHPP federal funds and \$3,500,000 in state funds for FY 2016 Construction. The total project cost has increased so additional construction funds are needed.	\$4,630,419		\$60,750,000		\$4,630,419		\$29,250,000		Non-Exempt

TIP Document

New TIP Page

Adopted 09-12-2013

TIP # TDOT PIN # Horizon Year Lead Agency

County Length LRTP # Conformity

Project Name Total Cost

Termini/Intersection

Project Description

Obligated Funds	Fiscal Year	Type of Work	Funding Type	Total Funds	Fed Funds	State Funds	Local Funds
\$1,448,000 / 03.21.14	2014	CONST	STP-M	\$3,620,000	\$2,896,000		\$724,000

TABLE OF CONTENTS INTRODUCTION TDOT PI

IAC – what makes things works

- **Communication** - email, conf calls or one to one phone calls
- **Timely delivery** of information/ documentation
- Provide **easy to read** information e.g. summary documents
- **Education**
 - EPA's presentation in Desoto Co before non-attainment designation
 - MPO 101 for members
- Build **relationships** with the agencies responsible for SIPs and budget's
 - Helped us with our timeline for MS amendments
 - Our model is used for their budgets development, their budgets effect our plans
- **Statewide IAC calls** – hosted by federal agencies- participants include MPOs. State agencies and neighboring state



IAC – Some challenges

- **Level of understanding varies –**
 - For Example- request for Project changes (scope/funding) and its impact on conformity
 - Misunderstanding of the time required by the process
- **Additional dedicated staff time needed for coordination**
- **Timeline–**
 - For example-interpretation of conformity status exempt vs non-exempt
- **Project Delays due to review times involved**

Benefits



Transportation Improvement Program (TIP)

Memphis MPO
METROPOLITAN PLANNING ORGANIZATION

Filter data by...

Lead Agency: All

Project Group: All

Funding Type: All

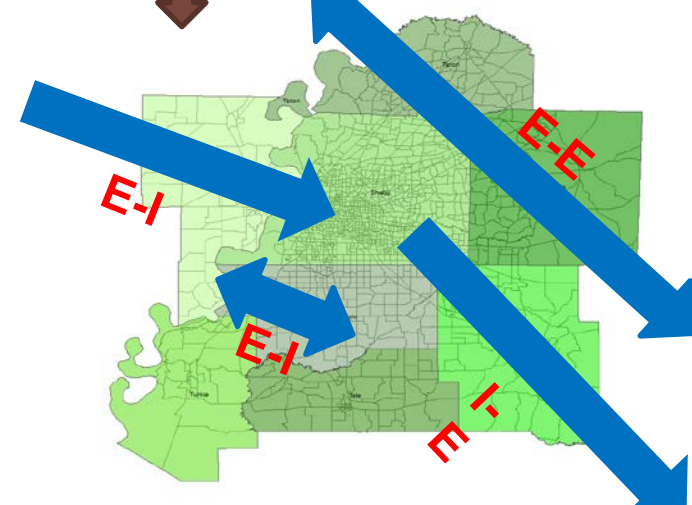
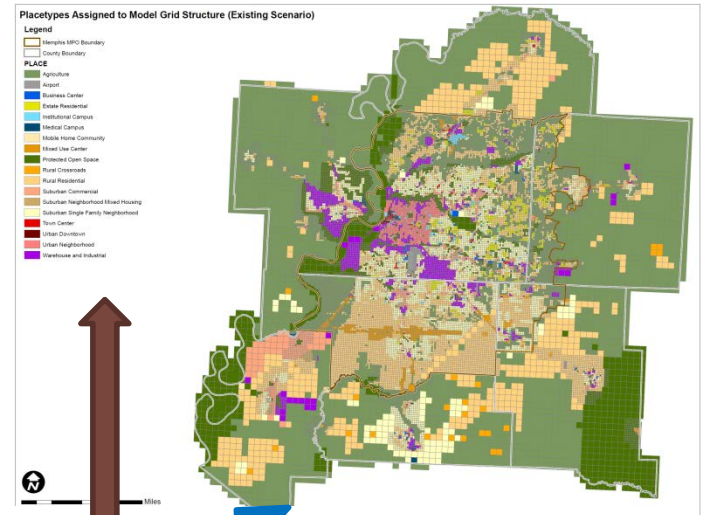
Legend

- Local
- State

Print map: Save data: Export PDF Download CSV

Switch map to: RTP Overall

Name	TIP ID	Type	FY	Location	Description	Remarks	Proj Group	Admin Level	Lead Agency	Total Cost
Hampton Drive @ Goodman Road Signalization	MS-LTP-2014-09	STR	2014	Hampton Drive and Goodman Road	Signalization	Install new Drway traffic signal	Signalizatio	Local	Mem Lake	100000
Frayser Boulevard @ Thomas Street Signalization	STP-M-2009-08	STR	2014	Frayser Boulevard and Thomas Street	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000
Central Avenue @ McLean Boulevard Signalization	STP-M-2009-08	STR	2014	Central Avenue and McLean Boulevard	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000
Walker Avenue @ Third Street Signalization	STP-M-2009-08	STR	2014	Walker Avenue and Third Street	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000
Watkins Avenue @ Thomas Street Signalization	STP-M-2009-08	STR	2014	Watkins Avenue and Thomas Street	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000
Malloy Avenue @ Florida Street Signalization	STP-M-2009-08	STR	2014	Malloy Avenue and Florida Street	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000
Marsh Avenue @ Thomas Street Signalization	STP-M-2009-08	STR	2014	Marsh Avenue and Thomas Street	Signalization	Multimodal detection, pedestrian countdown timers	Signalizatio	Local	Memph	332000



Takeaways

- **Read the SIP** – Be aware of changes that can impact schedule
- **Timeline** – Have a good Idea of timeframe needed to complete tasks related to conformity
- **Roles** – Have a clear idea regarding participants responsibilities. If needed have an MOU
- **Data** – If possible, have same data used for conformity as well as SIP
- **Education** – IAC Members have different backgrounds/levels of expertise
- **Tracking** - Technical nature of air quality planning, document plan and amendment review, correspondence, etc.
- **Communicate** – Keep everyone is informed, Emails, Conference Calls, etc.



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