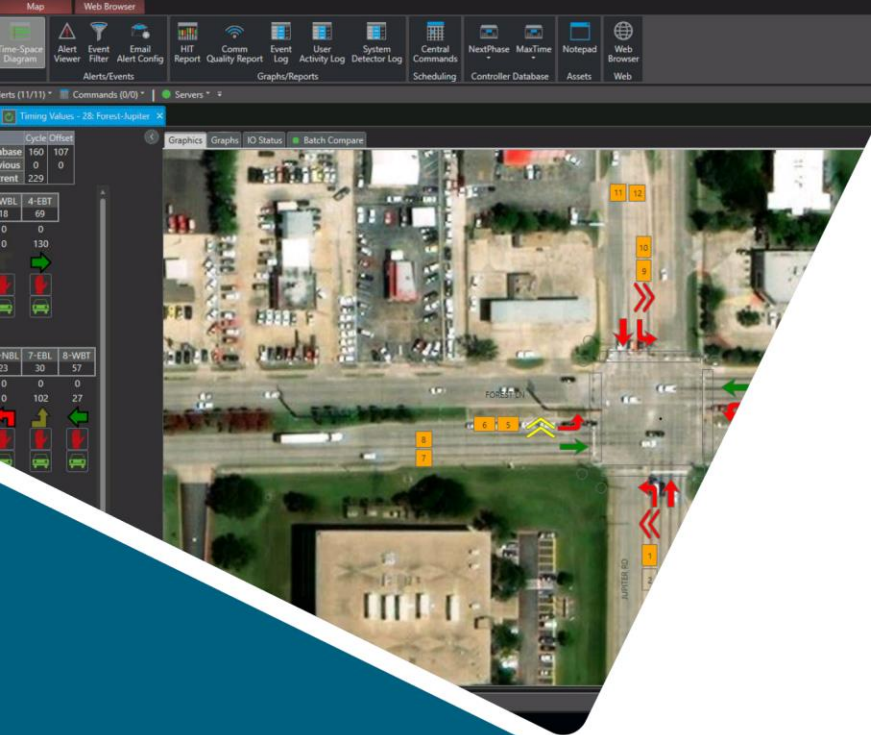


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# SMART CITIES

TECHNOLOGY FORUM

## Traction Metrics / ATSPM

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# ATSPM Overview

Hi-Res  
Controller  
Data



Metric



# ATSPM History



# ATSPM Configuration

Signal 1101110

**Version**

9/1/2021 - Traffop Config Import

Controller Type	Description	Primary Name	Secondary Name	Latitude	Longitude	Display On Map
ASC3	MCDOT (110)	99th Ave	Palmeras Dr	33.64345010584761	-112.27585747422137	<input checked="" type="checkbox"/>

### Approaches

Direction	Description	Protected Phase	Permissive Phase	Protected Phase Overlap	Perm. Phase Overlap
Northbound	NBL Phase 1	1		<input type="checkbox"/>	<input type="checkbox"/>
Southbound	SBT Phase 2	2		<input type="checkbox"/>	<input type="checkbox"/>
Westbound	WB Phase 4	4		<input type="checkbox"/>	<input type="checkbox"/>
Southbound	SBL Phase 5	5		<input type="checkbox"/>	<input type="checkbox"/>
Northbound	NBT Phase 6	6		<input type="checkbox"/>	<input type="checkbox"/>
Eastbound	EB Phase 8	8		<input type="checkbox"/>	<input type="checkbox"/>

# ATSPM Configuration

## Detectors

Detector ID	Det. Channel	Direction	Phase	Perm. Phase	Overlap	Enabled	Detection Types	Detection Hardware	Latency Correction	Movement Type	Lane Number	Lane Type	MPH	Dist. From Stop Bar	Decision Point	Move. Delay	Min Speed Filter	Comment	
110111001	1	SB	2		False	True	Advanced Count	Unknown	0	Thru	1	Vehicle	40	150					
110111002	2	SB	2		False	True	Advanced Count	Unknown	0	Thru-Right	2	Vehicle	40	150					
110111003	3	SB	2		False	True	Lane-by-lane Count	Unknown	0	Thru	1	Vehicle	40						
110111004	4	SB	2		False	True	Lane-by-lane Count	Unknown	0	Thru-Right	2	Vehicle	40						
110111005	5	SB	5		False	True	Stop Bar Presence	Unknown	0	Left	1	Vehicle	40						

# ATSPM – Metric Types

- **Cycle/Phase**

- Purdue Phase Termination
- Split Monitor
- Purdue Split Failure
- Approach Delay
- Left Turn Gap Analysis
- Pedestrian Delay

- **Coordination**

- Purdue Coordination Diagrams
- Arrivals on Red/Green
- Yellow and Red Actuations

- **Data**

- Turning Movement Counts
- Approach Volume
- Approach Speed

# ATSPM Demo

# Traction Metrics Demo



A dark gray background featuring a stylized, light gray silhouette of a city skyline at the bottom. The skyline includes several buildings of varying heights and widths, with some having grid-like patterns representing windows. On the left side, there are large, overlapping, angular shapes that resemble a stylized sun or abstract architectural elements.

**Questions?**