

### **TSMO PROGRAM**

2023 STATEWIDE TRANSPORTATION MEETING

Presentation by Zack Neihof

Frankfort, Kentucky | April 13th, 2023





#### **Vision**

Striving to be national leaders in transportation who provide transportation infrastructure and services for the 21st century that deliver new economic opportunities for all Kentuckians.

#### **Mission**

To provide a safe, efficient, environmentally sound and fiscally responsible transportation system that delivers economic opportunity and enhances the quality of life in Kentucky.



## What is TSMO?

## Transportation Systems Management and Operations

TSMO encompasses a broad set of strategies that aim to optimize the safe, efficient, and reliable use of existing and planned transportation infrastructure for <u>ALL</u> modes.

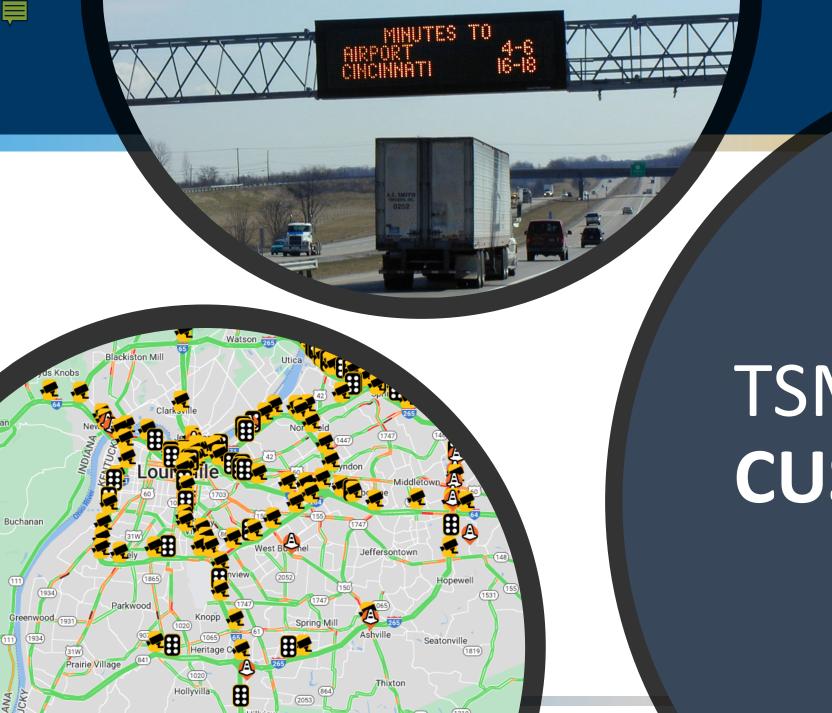


## TSMO Defined

Transportation Systems

Management and Operations

A <u>program</u> to improve the <u>performance</u> of the highway and street transportation system through implementation of <u>systems (ITS), services, and</u> <u>projects</u>. TSMO includes all the things needed to realize all the benefits of ITS applications.

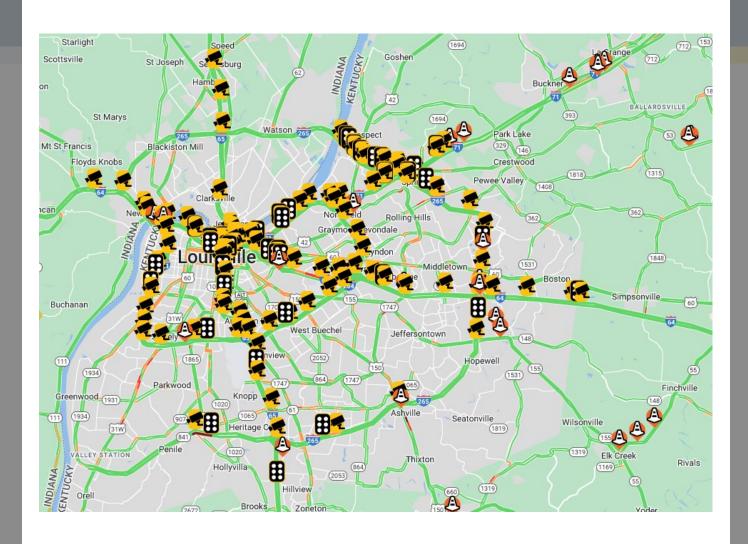


# TSMO for CUSTOMERS





DISTRICT 5							
County	Route	Road Name	Work Zone Begin Milepoint	Reference Milepoint	Work Zone End Milepoint	Current Avg Speed	Reference Information
Jefferson	I-64	I-64 NC	0.0	0.2	1.0	47.8	GoKY   Google Maps   Waze   Here WeGo   NWS Detailed Forecast

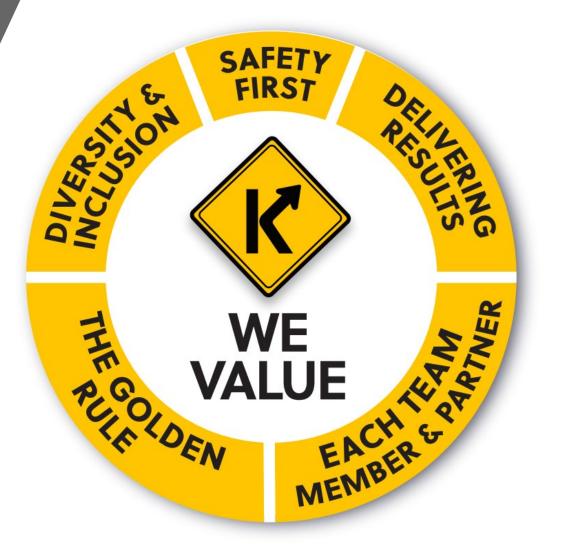




## TSMO for PRACTITIONERS



## TSMO for KENTUCKY





## TSMO IS...?



Toolbox



Get the most out of the investments we've made



## What TSMO is NOT:

Not a "silver bullet"

**Not** a replacement for all future capacity projects

Not a solution for every project

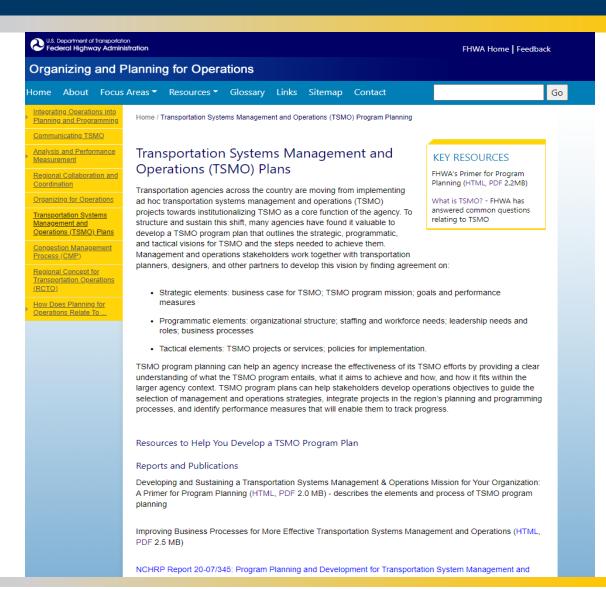


## FHWA: TSMO PROGRAM



### 3 Keys:

- Strategic Element
- Programmatic (Business) Element
- Tactical Element





## **KYTC:** PROGRAM PLAN

- Strategic Plan
- Business Plan
- Next: Implementation Plan





# KYTC'S STRATEGIC PLAN

How can TSMO help us accomplish our goals?



#### **GOAL 1**

**Promote Safety in All Decision Making** 

#### **GOAL 2**

**Strengthen Stakeholder and Customer Relationships** 

#### GOAL 3

**Deliver Economic Opportunities and Enhance Quality of Life** 

#### **GOAL 4**

Optimize Performance through People and Innovation

#### **GOAL 5**

**Nurture a Culture of Diversity and Inclusion** 





Goal 1: Promote Safety in ALL Decision Making



Goal 2: Strengthen
Stakeholder and
Customer Relationships



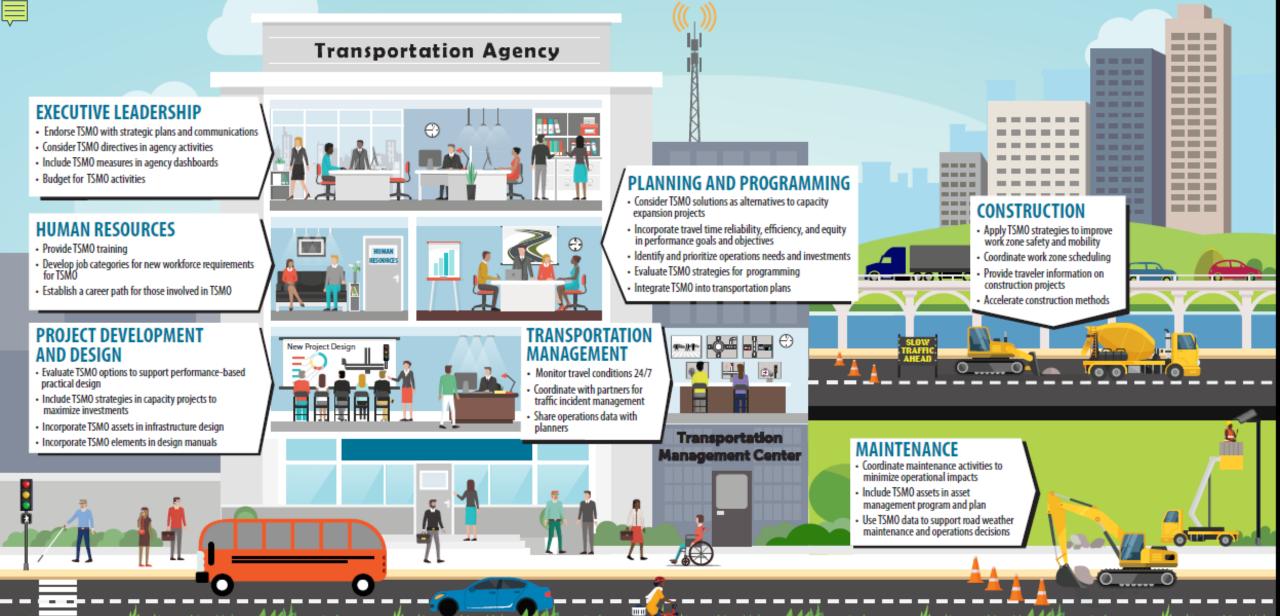




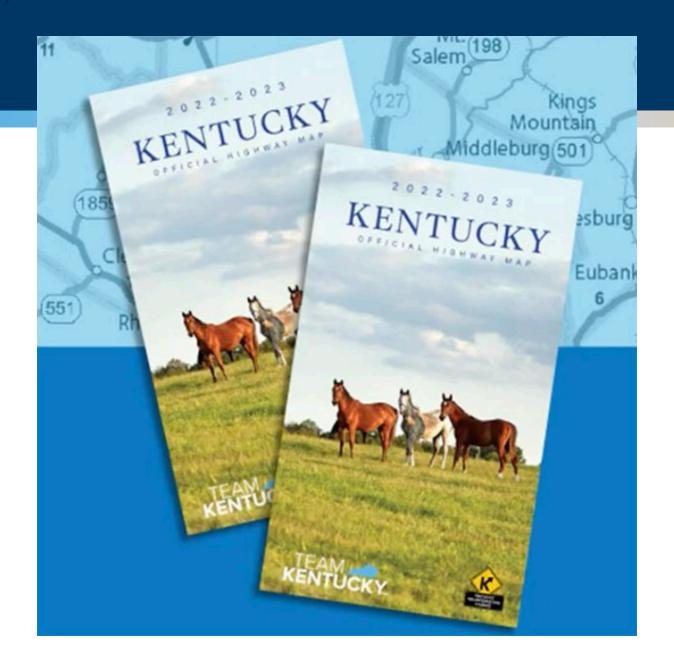
Goal 4: Optimize
Performance Through
People and Innovation



Goal 5: Nurture a Culture of Diversity and Inclusion





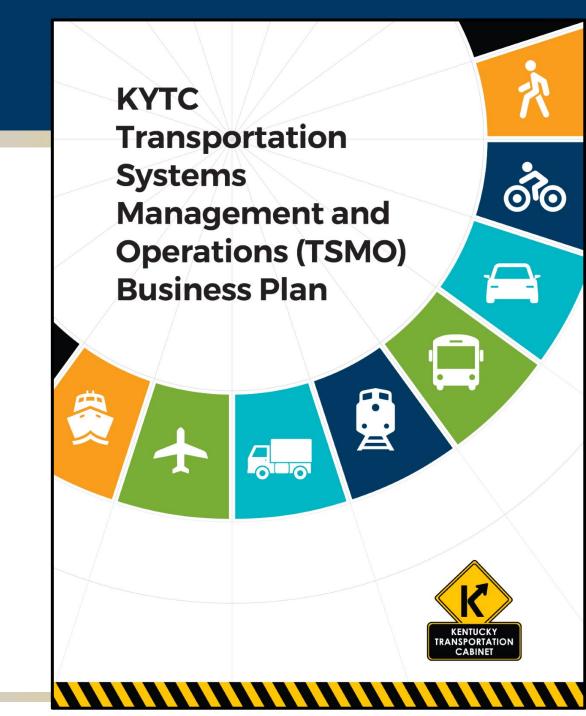


"The journey is the safest when the roadmap is the clearest."

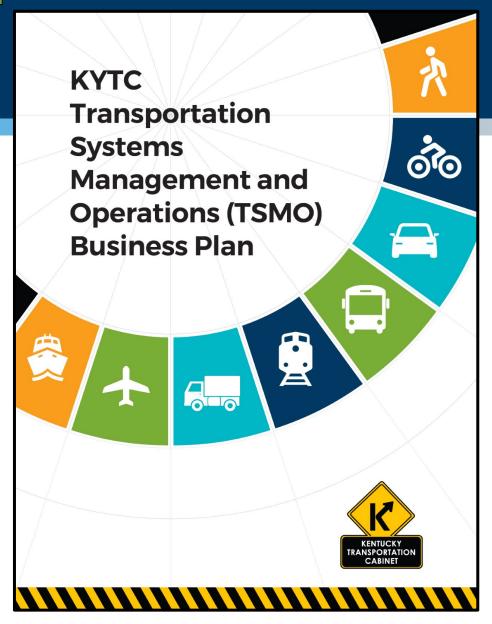


## TSMO BUSINESS PLAN

What does a TSMO program at KYTC look like?







- TSMO Foundation
- TSMO and the Capital Program
- Other Business Processes



### **ESTABLISH KYTC TSMO** TSMO FOUNDATION **PROGRAM** Research Peer TSMO **Programs** Develop Compelling **DEVELOP TSMO TRAINING PROGRAM AND ON-GOING TRAINING RECRUITMENT INITIATIVE WITH TSMO TRACK** TSMO 101 **TSMO OUTREACH AND AWARENESS** Develop Outreach Outreach Material Plan

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## TSMO Training Program

- □ TSMO 101- for KYTC staff and partners
- Operations Academy
- → NOCoE

### operationsacademy™ SENIOR MANAGEMENT PROGRAM



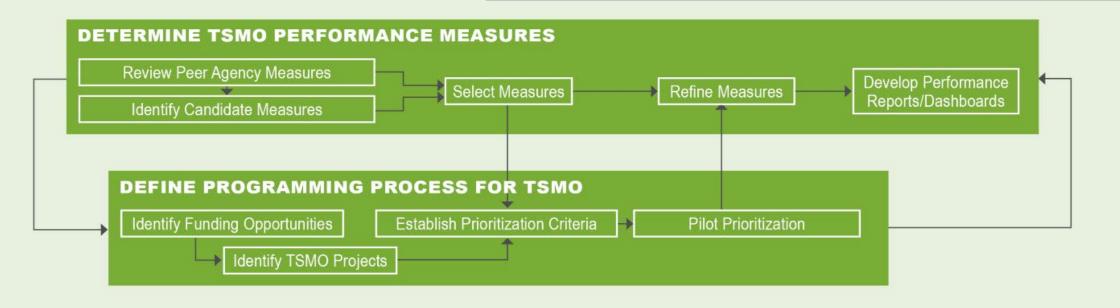








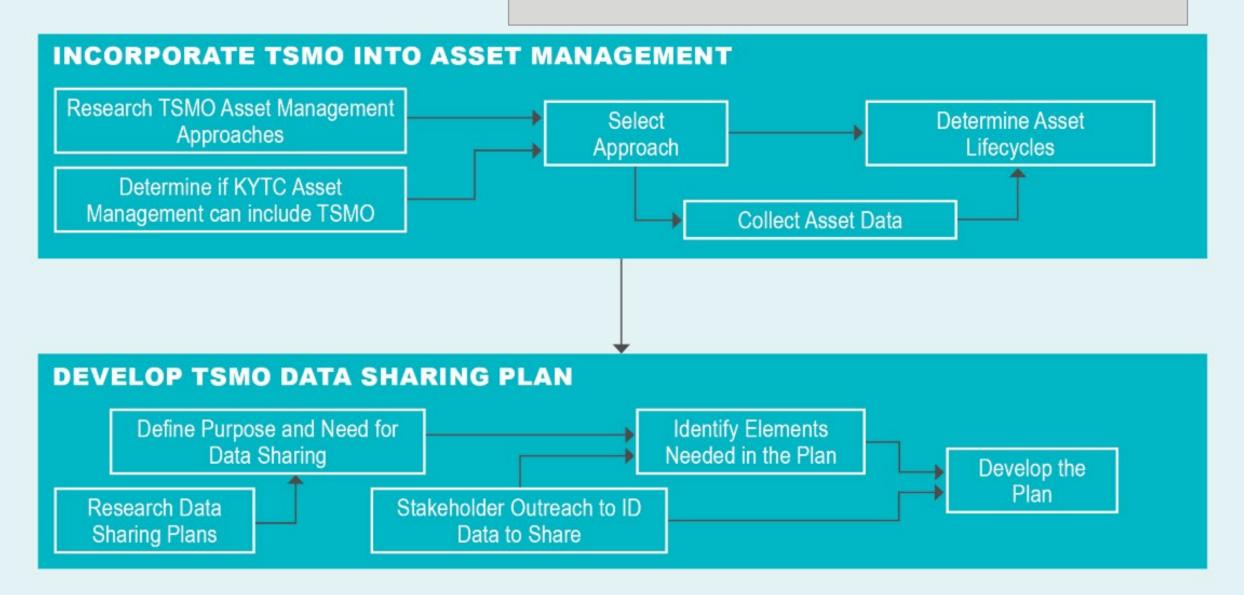
# Continue Existing Integration Efforts Assistance to MPOs to include TSMO in Planning Process Relationship between TSMO Program and ITS Architecture TSMO & THE CAPTIAL PROGRAM







#### OTHER CABINET PROGRAMS

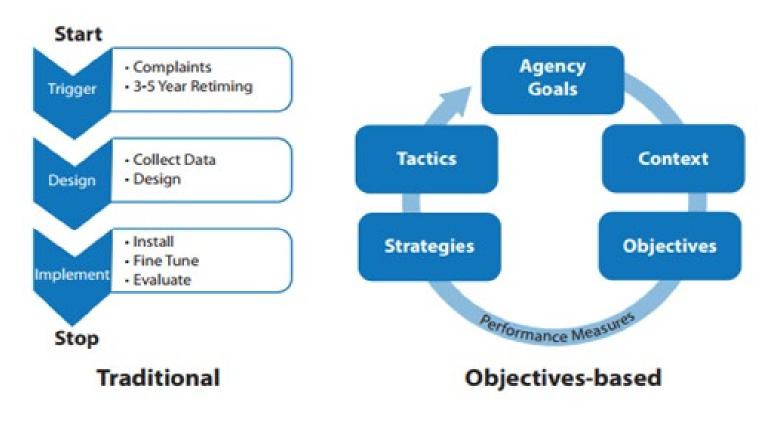


## TSMO IN ACTION



## SYSTEMS

Automated Traffic Signal Performance Measures (ATSPMs)





## SERVICES







## **PROJECTS**

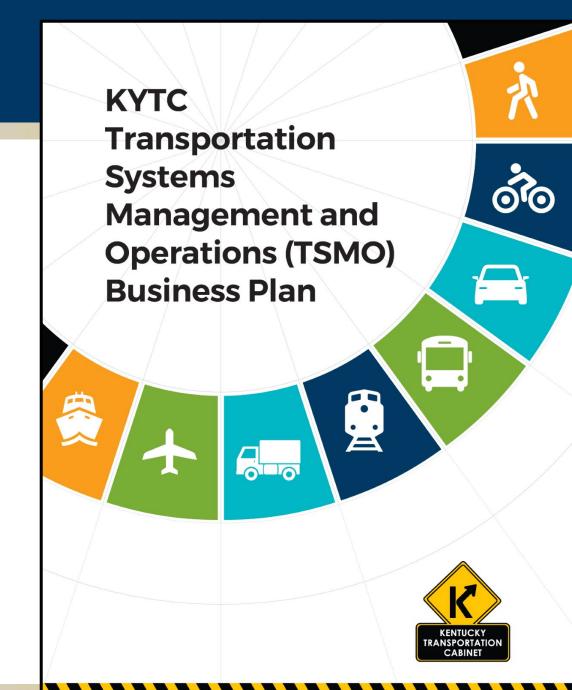
- Example: Turn lane with signal phase change
  - Improved safety
  - Improved mobility





What canYOU do tohelp?

I'm glad you asked!





## BE **INFORMED**-ASK QUESTIONS.



## BE **INVOLVED** HELP IMPLEMENT THE PROGRAM PLAN



# BE INTENTIONAL CONSIDER POTENTIAL TSMO SOLUTIONS IN YOUR NEXT PROJECT!



### **NEXT STEPS!**

- Think of TSMO as a practical solution for your District's Traffic Operation challenges
- Be on the lookout for the TSMO
   101 training this year
- Please reach out to if you have any questions or want to learn more!

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