Pennsylvania DOT Perspective

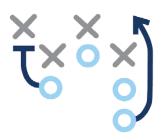


ITS Community College Workshop September 20, 2017



Overview

Transportation Systems Management & Operations



TSMO Purpose

A way to address reliability, mobility, and congestion by using various strategies rather than just trying to build our way out.

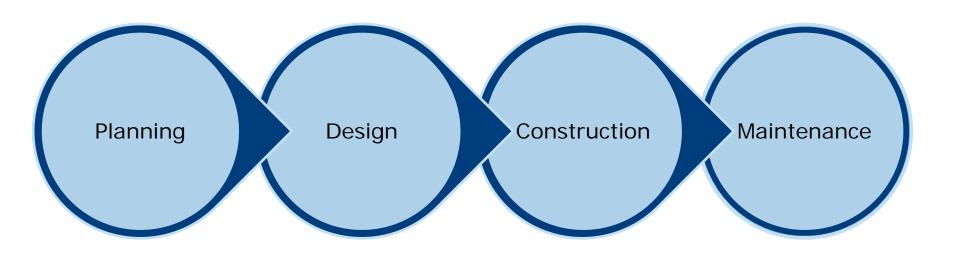


TSMO Mission

Move people and goods, from Point A to Point B, as efficiently, safely, and reliably as possible.



Overview (Project Life Cycle - Reality)







Overview (Capability Maturity for TSMO)

Self-Assessment

Elements	Level 1 Performed	Level 2 Managed	Level 3 Integrated	Level 4 Optimizing
Planning & Programming				
Systems & Technology				
Performance				
Culture				
Organization & Staffing				
Collaboration				



Overview (Capability Maturity for TSMO)

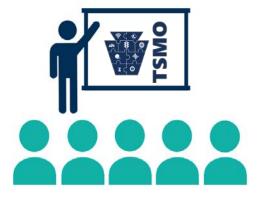
Target

Elements	Level 1 Performed	Level 2 Managed	Level 3 Integrated	Level 4 Optimizing
Planning & Programming				
Systems & Technology				
Performance				
Culture				
Organization & Staffing				
Collaboration				



Key TSMO Activities

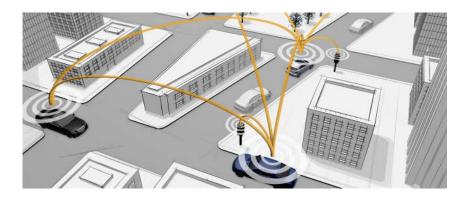
- TSMO Strategic Framework and Program Plan
- Performance Metrics Program
- TSMO Implementation Guidebook
- Regional Operations Plans
- Statewide TMC / 4 Regional TMCs
- Connected and Automated Vehicles
- Traffic Signal Ownership



Needed Job Skills

- Traffic Operations
- IT / Communications
- Data analytics
- Advanced Vehicle Technologies



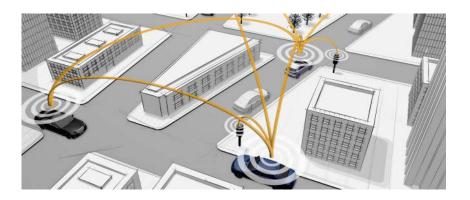




Needed Job Skills

- Traffic Operations
- IT / Communications
- Data analytics
- Advanced Vehicle Technologies







PennDOT Training Program

- Traffic Management Centers
- TSMO
- Advanced Vehicle Technologies

_										
Me	Model Employee Title									
RTMC/O	RTMC/S	RTMC/M	STMC/O	STMC/S	STMC/M	pennsylvania DEPARTMENT OF TRANSPORTATION Traffic Operations Training			Recommended Refresher Training	Traffic Unit Academy
PennDOT Traffic Operations References and Polices RIMC/N RIM										
П	Tr	rainir	ng Le	vel		Training and Course Description	Training Source	Total Hrs		
O	0	0	0	О	0	Traffic Operations 101 Overview Training 5.5		50	х	
П						PennDOT Organizational Structure	Classroom/Webex	0.50		П
						Intro to Traffic theory				
						Stakeholders - Partner State Agencies	Classroom/Webex	0.50	х	
						HR Policies and Processes	Classroom/Webex	0.50	х	
						PUB 705	Classroom/Webex	2.00	х	
						Emergency Operations Roster (EOR)	Web-based	0.50		
						PennDOT Portals	Classroom/Webex	0.25		х
						The National Unified Goal (NUG)	Classroom/Webex	0.25		
						PUB 911- All Hazards Incident Manual	Classroom/Webex	1.00	х	
0	0		0	О		Dynamic Message Signs Overview Training		1.50		
						DMS Guidelines	Classroom/Webex	1.00	х	X
						Safety Service Messages (SSM)	Classroom/Webex	0.50	x	
Incident Management Training										
<u>Training Level</u> <u>Training and Course Description</u> <u>Training Source</u>				<u>Training Source</u>	Total Hrs					
0	0	0	0	0	0	Core ICS Trainin	Core ICS Trainings 12.00		.00	
П						ICS 100 B Intro to Incident Command				
						System	Web-based/ Self-paced	3.00		
						ICS 200 B ICS for Single Resources and				
H						Initial Action Incident	Web-based/ Self-paced	3.00		\sqcup
						ICS 700 A Intro to National Incident				
H						Management Systems (NIMS)	Web-based/ Self-paced	3.00		\vdash
						ICS 800 B Intro to National Response		1		
						Framework	Web-based/Self-paced	3.00		
						<u>Framework</u>	Web-based/ Self-paced	3.00		
								3.00		
С	С	С	С	С	С	Framework ICS 300 - Intermediate ICS for Expanding Incidents		3.00 24.00		
С	С	С	С	С	С	ICS 300 - Intermediate ICS for Expanding				
С	С	С	С	С	С	ICS 300 - Intermediate ICS for Expanding Incidents				

Finding Qualified Personnel

- PA Civil Service Commission
- Limited to existing classifications
- "Fit" classifications into needed skills

