# AGING OUR WAY, PA: OVERVIEW OF TRANSPORTATION STRATEGIES











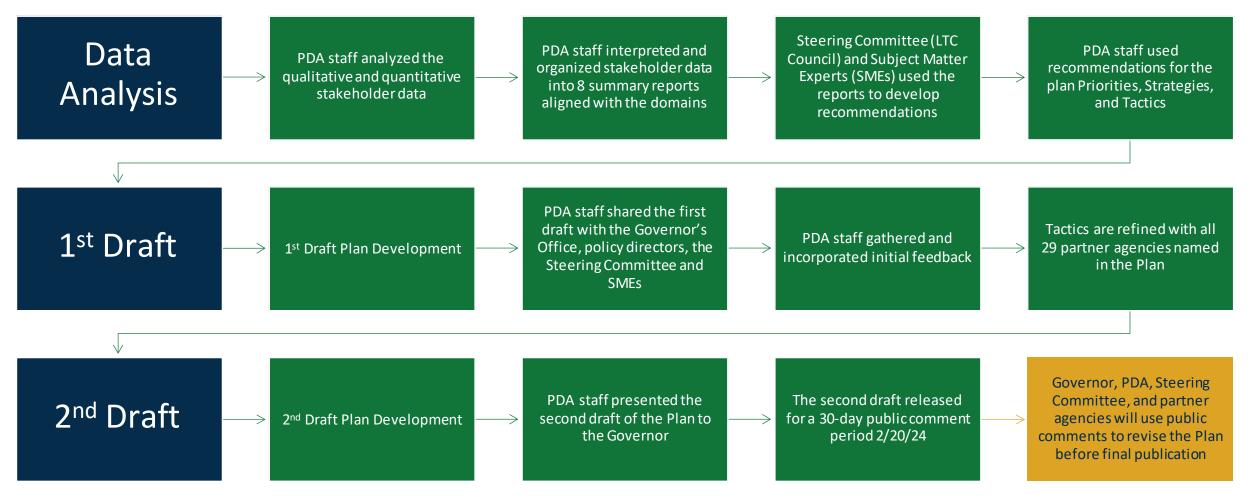
#### Aging Our Way, PA is:

A 10-year strategic plan designed to help transform the infrastructure and coordination of services for Pennsylvania's older adults.

- **Stakeholder-Driven:** PDA received nearly 20,000 responses from community members across the state including Pennsylvanians over 60, caregivers, families, subject-matter experts and community members to recommend improvements to the services and infrastructure in their communities.
- **Collaborative:** Drawn from stakeholder input, and as directed by Governor Shapiro's Executive Order 2023-09, state agencies and community expert partners worked together to identify the priorities, strategies, and tactics included in the plan.
- Achievable: To guarantee achievability, each Tactic has been refined in active partnership with the agencies responsible for its implementation.
- Responsive: The Plan is designed to adapt alongside shifting needs and resources over its 10-year timeframe.
- **Necessary:** The investments and improvements outlined in the Plan are needed for Pennsylvania to grow alongside its aging population.
- Effective: The Plan presents an opportunity for Pennsylvania's government to work smarter.



#### Development Phase II: Crafting Policy Initiatives





#### Plan Structure: Priorities, Strategies, and Tactics

Aging Our Way, PA is structured around **Priorities** (high-level themes), **Strategies** (mid-level approaches), and **Tactics** (specific, measurable initiatives).

**Unlocking Access** 

Eliminate barriers preventing equitable ability of older Pennsylvanians to live healthy, fulfilling lives.

10 Strategies

25 Tactics

Aging in Community

Enable older Pennsylvanians to maintain secure housing, active community involvement, and familiar surroundings.

12 Strategies

65 Tactics

Gateways to Independence

Promote older adults' unhindered mobility and safe, convenient, and autonomous use of transportation.

5 Strategies

20 Tactics

**Caregiver Supports** 

Provide support, training, respite, and navigation tools to paid and unpaid caregivers.

2 Strategies

6 Tactics

Education and Navigation

Streamline the resolution of complex problems faced by older adults through improvements to the connections, reach, and delivery of the services network.

6 Strategies

40 Tactics



# GATEWAYS TO INDEPENDENCE

#### **Ensuring driver safety for older adults**

- Encourage older adults and individuals with disabilities to seek vehicle modifications needed to maintain driving abilities, including those necessary for employment.
- Increase awareness of existing safe driving education programs.
- Invest in additional programming related to Older Driver Safety Awareness Week.

#### Improving transportation systems to better serve older adults and people with disabilities

- Develop a rider awareness advertising program that highlights ADA requirements and respectful behavior.
- Develop and disseminate a best practice guide for transit driver recruitment and retention.
- Develop and implement or improve ADA and accessibility trainings for transit authority employees.
- Improve coordination between transit providers and the Veterans' Administration to address gaps in access to services for veterans, including veterans in rural areas.
- Provide resources to modernize the Veterans' Van Program and develop a fleet replacement schedule.



# GATEWAYS TO INDEPENDENCE

#### Increasing coordination between transportation stakeholders

- Advocate for increased coordination, through local development authorities, zoning, or other mechanisms, for the development of retirement and older adult living communities in exurban and rural areas that are closer to community hospitals and fixed route bus services.
- Conduct an evaluation and develop toolkits which may include innovative ideas for county and municipal governments to maintain and improve public transit services.
- Establish an Older Driver Task Force of transportation stakeholders, including but not limited to transit providers, state agencies, and advocates to improve older driver safety.
- Evaluate the inclusion and engagement of older adults and people with disabilities in Metropolitan Planning Organizations (MPOs) and Regional Planning Organizations (RPOs) to advance aging and disability equity.
- Increase awareness and utilization of the PennDOT Local Technical Assistance Program (LTAP).
- Support Pennsylvania House Resolution 174 for the Legislative Budget and Finance Committee to conduct a study and issue a report on the current status, management, and implementation of mass or public transit in Pennsylvania's rural communities.



# GATEWAYS TO INDEPENDENCE

#### Using alternatives to public transportation to reduce gaps in access

- Advocate to increase the availability of paratransit and accessible rideshare vehicles.
- Educate non-profit organizations on PennDOT's Private Non-Profit Vehicle Grant to fund vehicles for transportation of older adults and persons with disabilities.
- Educate personal care attendants and recipients that the delivery of transportation is covered under Medicaidfunded personal care services.
- Inventory and raise awareness of existing technology solutions that assist people with specialized transportation, including Find my Ride, Fareless Payment, and Vehicle Locators.

#### Utilizing funding opportunities to maximize efficiency and efficacy of public transit

- Enhance awareness of competitive rural transportation grants available through the Infrastructure Investment and Jobs Act (IIJA) and related technical assistance available through PennDOT.
- Evaluate the funding and distribution of lottery funds for the Shared Ride program to maximize efficiency and impact.



# QUESTIONS?

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Aging Our Way, PA Plan

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#### **Transportation Advisory Committee**

#### PENNSYLVANIA DEMOGRAPHICS





## GENERAL APPROACH

Part A: Demographics / Workforce



#### PROJECT INITIATION

Strategic Task Force Workshop #1



#### DEMOGRAPHICS (WORKFORCE) PROFILE

- Workforce Implications / Analysis
- · Summarize national transportation workforce issues and trends



#### TARGETED STAKEHOLDER ENGAGEMENT

- PennDOT
- · Other Modes (Aviation, etc.)
- PMTA/Trucking **Public Transportation**
- Workforce Organization / Agencies (e.g. L&I)
- · Others TBD



#### **IDENTIFY OPTIONS AND ALTERNATIVES**

Options and Alternatives Tech Memo (also key findings)



#### **OPTIONS EVALUATION WORKSHOP**

Consider Options and Alternatives Developed in Task #4\*



#### DRAFT AND FINALIZE REPORT

- Task Force Review
- · Finalize Report
- Report Revisions
- · Present to TAC / STC
- · Parts A and B



#### **REVIEW / ASSESS AOWPA REPORT**

- Document direct and indirect transportation implications
- Establish inventory of issues / opportunities for further evaluation

Part B: Aging Our Way PA (Transportation)\*\*



#### TARGETED STAKEHOLDER ENGAGEMENT

- Advocacy groups
- · Transportation service providers



#### OTHER STATES RESEARCH

- Focus on transportation and aging population
- Based on issues / opportunities identified in Task #1



#### **IDENTIFY OPTIONS AND ALTERNATIVES**

Stakeholder Engagement / Other State Research Findings Tech Memo

- \* Part B will address the transportation component of Aging our Way PA, assuming TAC detailed recommendations
- \*\* Conceptual approach envisions bringing Aging our Way PA effort and overall Demographics / Workforce study effort together at one workshop. (TBD, as separate workshops could be preferable.)

#### QUESTIONS / DISCUSSION





#### **Transportation Advisory Committee**

#### **E-COMMERCE STUDY**





### STUDY OBJECTIVES

- Identify land use changes related to growth of e-commerce, transformation of retail establishments resulting from changes in landscape and demographics...
- Evaluate economic impact of these changes in terms of employment, real estate valuations, traffic and congestion, pedestrian and active transportation user safety, and other "last-mile" considerations...
- Identify how these trends impact PA's transportation network and implications for future infrastructure needs...
- Evaluate the transportation funding implications related to e-commerce (e.g., package delivery fees, Goods Delivery Fee proposed by TROC).



## SCOPE ELEMENTS

CHAMBERSBUR

Project Kickoff & Problem
Definition

Project Task Force Research & Stakeholder Engagement

Moderated Panel Discussion

Address Issues & Opportunities

Draft Study Report Report Review and Finalization

Project Communications

# PROJECT SCHEDULE

No.	Task Name	Start Date	End Date
1	Task Force Meeting – Kickoff and Problem Definition	04/24	04/24
2	Research & Stakeholder Engagement	04/24	06/24
3	Moderated Panel Session	07/24	07/24
4	Address Issues and Opportunities Identified	08/24	09/24
5	Draft Report	10/24	10/24
6	Report Review and Finalization	11/24	11/24
7	TAC and STC Presentations	12/24	12/24
8	Project Communications	04/24	02/25



#### QUESTIONS / DISCUSSION





#### **Transportation Advisory Committee**

# 2025 TRANSPORTATION PERFORMANCE REPORT





#### PLANNING, PROGRAMMING, PERFORMANCE MEASUREMENT





# RECURRING THEMES Safety Mobility Preservation Accountability **Funding** Freight

# SCOPE ELEMENTS

Project
Task Force

Coordination with PennDOT Executives & Bureau Staffers



Update
Trend &
Performance
Data

Develop Draft
Report &
Update Digital
Report

Roll Out/Project Communications





#	Task Name	APR	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC	JAN '25	FEB	MAR	APR
1	Project Management/Administration													
2.1	Kickoff and Stakeholder Engagement	KICKOFF												
2.2	Evaluate and Update TPR Charts													
2.3	TAC Briefings				July 17	L		Oct. 23		Dec. 11	1			
2.4	Report Production & TAC Final Presentation											Feb. 3		
2.5	STC Presentation													
2.6	Roll-out													

#### QUESTIONS / DISCUSSION





# NAVIGATING MICROMOBILITY FROM WHEELS TO LAWS



For most people transportation starts with the idea of an automobile or light truck for every day personal use





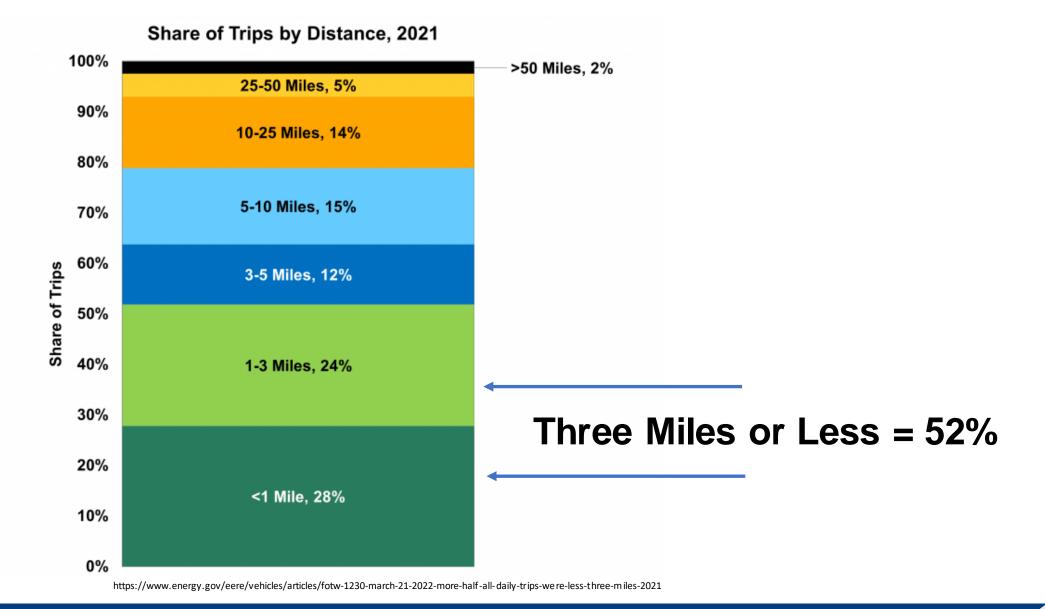
It is also an aspirational purchase saying something about who you are and where you could go.



Practically speaking a car or truck is something else

Each is a bundle of trips – mostly short trips







# What Other Options Are There?



# Micromobility

A broad landscape of small, lightweight vehicles with a variety of form factors weighing less than 1000kg

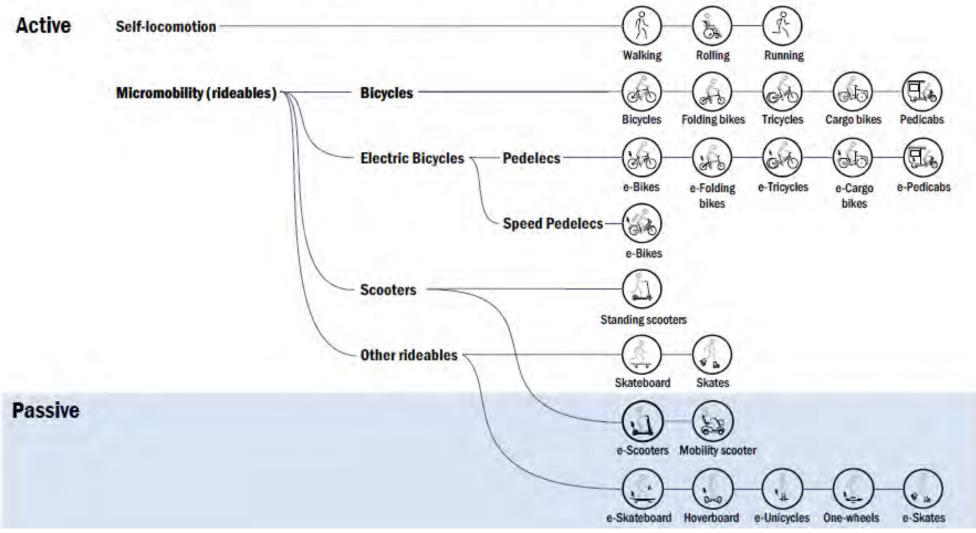


# MICROMOBILITY: DEFINITIONS

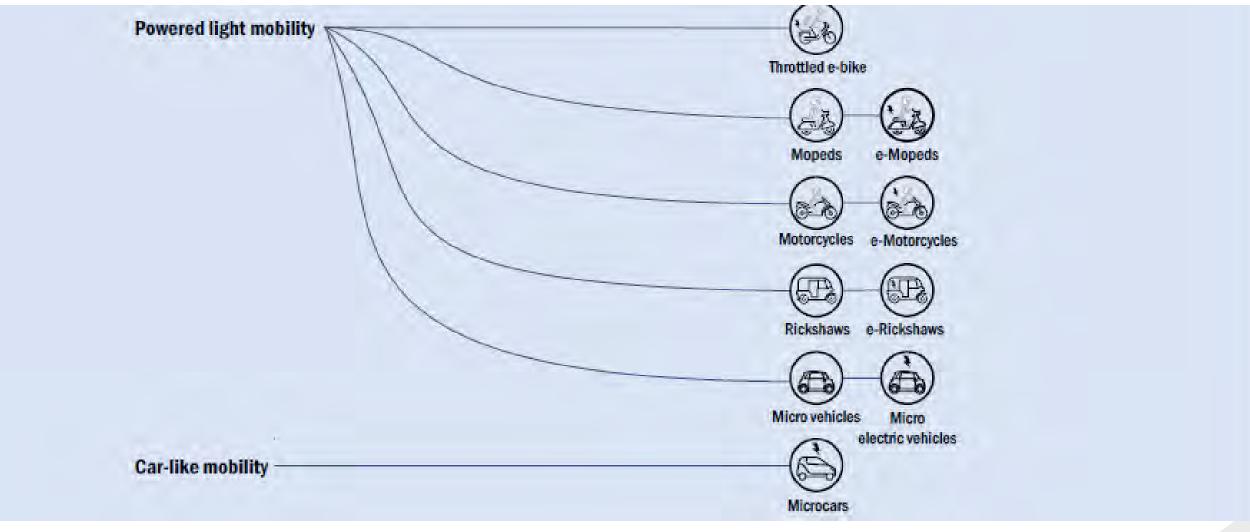


# MICROMOBILITY LANDSCAPE

Figure 3.The Light Mobility Landscape



# MICROMOBILITY LANDSCAPE





# MICROMOBILITY AND THE LAW



# MICROMOBILITY AND THE LAW

# The Reality of Regulation and Legislation

- Not as clear as we might prefer
- Elected Officials, Law Enforcement, and the Public are confused
- Bike shops are trying to educate customers
- Researchers are producing some work on the laws and how these vehicles are being used.



# MICROMOBILITY: DEFINITIONS

#### **MOTOR-DRIVEN CYCLE:**









# MICROMOBILITY: DEFINITIONS

**Motor-Driven Cycle:** A motorcycle, including a motor scooter, with a motor which does not to exceed 5 brake horsepower

#### **Motorized Pedalcycle or Moped\***

A motor-driven cycle equipped with operable pedals and a motor rated no more than 1.5 brake horsepower, a cylinder capacity not exceeding 50 cubic centimeters, an automatic transmission and a maximum design speed of no more than 25 miles per hour

#### OR

An electric motor-driven cycle equipped with operable pedals and an automatic transmission powered by an electric battery or battery pack-powered electric motor And a maximum design speed of no more than 25 miles per hour

#### **Pedalcycle with Electric Assist:**

A vehicle weighing not more than 100 pounds with two or three wheels more than 11 inches in diameter, manufactured or assembled with an electric motor system rated at not more than 750 watts and equipped with operable pedals and capable of a speed not more than 20 miles per hour on a level surface when powered by the motor source only.



## MICROMOBILITY: DEFINITIONS

### Three Tiers of E-Bikes

#### **National Model Legislation**

- •Class 1: eBikes that are pedal-assist only, with no throttle, and have a maximum assisted speed of 20 mph.
- •Class 2: eBikes that also have a maximum speed of 20 mph, but are throttle-assisted.
- •Class 3: eBikes that are pedal-assist only, with no throttle, and a maximum assisted speed of 28 mph.

#### Does not distinguish based upon:

Weight

Engine power

Power source

Manual vs. automatic transmission



## MICROMOBILITY: DEFINITIONS?

The ELF Pedalcycle with Electric Assist 150 lbs. – up to 550 lbs. loaded

UPS – Motorized Cycle 400 lbs. unloaded and w/o driver







## MICROMOBILITY: DEFINITIONS?

Challenging to operate for new riders Higher than expected speeds







## A TRANSPORATION SOLUTION

# Why Micromobility?



## A TRANSPORTATION SOLUTION

### Provides low-cost flexible options for the traveling public

Federal poverty level for family of three is \$25,820\*\*\*\*

Cost to own a new motor vehicle in 2023 was \$12,182 / year over 5 years\*\*

16% of yearly household income

Cost to own a \$1,500 e-bike is about \$530 / year over 5 years\*\*\*

0.73% of yearly household income



<sup>\*</sup> https://wisevoter.com/state-rankings/median-household-income-by-state/#pennsylvania

<sup>\*\*</sup> https://newsroom.aaa.com/wp-content/uploads/2023/08/YDC-Fact-Sheet-FINAL-8.30.23-1.pdf

<sup>\*\*\* \$1500</sup> bike financed at 8% over 5 years – about \$32/month + 150 maintenance work. Not including new battery (\$300-\$900)

<sup>\*\*\*\*</sup>https://www.healthcare.gov/glossary/federal-poverty-level-fpl/

### A TRANSPORTATION SOLUTION

### Housing and Transportation Affordability Index

Roughly 30% of family income should go to housing and transportation



### A TRANSPORTATION STORY

### Six More Reasons to Support Micromobility

Offers access to jobs, school, health care, and other community resources

Reduces ambient air pollution and GHG emissions

Improves public health outcomes in adults and young children

Supports multiple federal and state plans and policies

Infrastructure costs far less per lane mile to build and maintain



## MICROMOBILITY: JUST THE FAQS

ESCRIPTION	MIN AGE	LICENSE	REGISTRATION	INSURANCE	HELMET	PASSENGER	LIGHTS	MAX CAPABLE SPEED	RIDE ON SIDEWALK	RIDE ON BIKE LANE	POSSIBLE DUI	PA VEHICLE CODE
ELECTRIC	4	• • •	-	-			-		÷	-	Yes	§ 102
	Can operate only on private property.  Electric scooters, like electric skateboards and electric unicycles, cannot be legally operated on public roadways.									dways.		
MOTORIZED PEDALCYCLE	16	С	Yes	Yes	Yes, under 21	Yes	Yes	25	No	No	Yes	§ 102, § 3523(e) § 1714
0	Gas	- motor	e pedals. Des rated 1.5 bra wered by an	ke horsepo	wer or less,			ansmission.		-		
MOTOR	16	Class M/Class if >50 cc, Class C if <50cc	Yes	Yes	Yes, under 21	Yes	Yes	Up to 5 brake horsepower	No	No	Yes	§ 102, § 3525
6-0	Isa	a motor-c	driven cycle.	Motor shall	not exceed	five brake h	orsepow	er.				
SEGWAY	15	No	No	No	Yes, under 12	No	Yes		Yes	No	Yes	§ 102, § 3581-3583, § 3703 (c)
مل	Ligh	iting mus	The contract of the contract o	nen operatir				ncing, two-noni A Segway is all			e.	\$ 0700 (c)
E-BIKE	16	No	No	No	No	Yes	Yes	20	Yes, not in business district	Yes	Yes	§ 102, § 3514
	Has operable pedals. Not capa				assist. Weighs less than 100 pounds. Motor not more than 750 watts.  apable going faster than 20 mph on a level surface when powered by the motor be used when operating between sunset and sunrise.						r	
BICYCLE	-	No	No	No	Yes, under 12	Yes	Yes		Yes, not in business	Yes	Yes	§ 102, § 3501 et seq., § 3802,



## SUPPORTING RESOURCES

- PennDOT Fact Sheet: Mopeds, Motor-Driven Cycles, and Motorcycles <a href="https://www.dot.state.pa.us/public/dvspubsforms/bmv/bmv%20fact%20sheets/fs-momo.pdf">https://www.dot.state.pa.us/public/dvspubsforms/bmv/bmv%20fact%20sheets/fs-momo.pdf</a>
- PennDOT Micromobility Fact Sheet <a href="https://www.penndot.pa.gov/TravelInPA/active-transportation/Documents/Low\_Speed\_FACT\_Sheet\_2021\_Final.pdf">https://www.penndot.pa.gov/TravelInPA/active-transportation/Documents/Low\_Speed\_FACT\_Sheet\_2021\_Final.pdf</a>
- DCNR E-Bikes in Pennsylvania State Parks and Forests https://www.dcnr.pa.gov/Pages/EBikePolicy.aspx
- Title 75 ( PA Vehicle Code) <a href="https://www.dmv.pa.gov/Information-Centers/Laws-Regulations/Pages/PA-Vehicle-Code-(Title-75).aspx">https://www.dmv.pa.gov/Information-Centers/Laws-Regulations/Pages/PA-Vehicle-Code-(Title-75).aspx</a>
- How and Where Should I Ride This Thing? "Rules Of The Road" for Personal Transportation Devices –
  Fang, Agrawal, Hooper 2019. <a href="https://transweb.sjsu.edu/research/1713-Rules-Personal-Transportation-Devices">https://transweb.sjsu.edu/research/1713-Rules-Personal-Transportation-Devices</a>
- Shifting the Focus: Smaller Electric Vehicles for Sustainable Cities <a href="https://www.itf-oecd.org/shifting-focus-smaller-electric-vehicles">https://www.itf-oecd.org/shifting-focus-smaller-electric-vehicles</a>
- Improving the Quality of Walking and Cycling in Cities <a href="https://www.itf-oecd.org/improving-quality-walking-cycling-cities">https://www.itf-oecd.org/improving-quality-walking-cycling-cities</a>



### MICROMOBILITY NEWSLETTERS AND PODCASTS

- <u>Micromobility</u> very good but technical, focusing on equity investments, product design, systems operations for e-bikes and scooters.
- The War on Cars from NYC, very light and airy discussions of issues surrounding the current and past practice of designing public space for cars.
- The Mobility Podcast wide range of topics including connected and autonomous vehicles, trains (rail and freight), electrification of buses (and school buses).
- <u>Talking Headways</u> more in depth some transit, some on health-transportation linkages, e-bikes, electrification of cities.
- <u>Streets Ahead</u> dedicated to the world of active transportation, livable streets, and people-focused urban design.
- <u>Arrested Mobility</u> minority and veteran-owned urban planning, public policy and research firm focused at the intersection of transportation, health and equity



## A TRANSPORTATION SOLUTION?

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PennDOT Lane Reservation System Update



# AGENDA



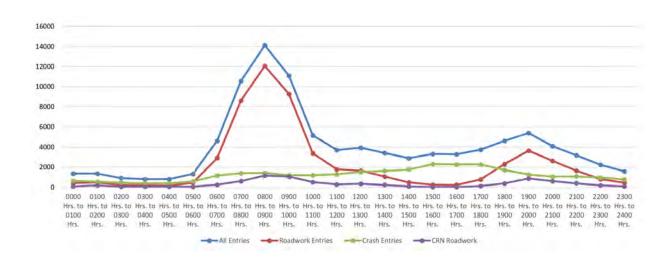
- Lane Reservation System Overview
- System Concept and Goals
- Work Completed To Date
- Deployment Timeline
- Peer Exchanges and Lessons Learned



### OVERVIEW - PROJECT GOALS

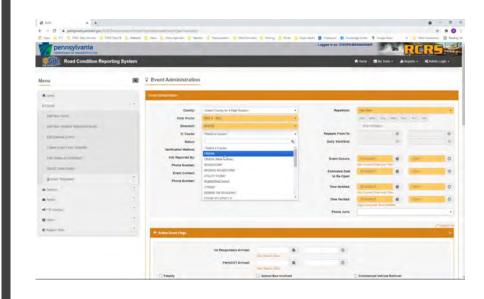
- Reduce work zone conflicts
- Reduce work zone congestion
- Improve work zone/general traffic safety
- Share work zone/incident data effectively
- Improve TMC Operations
- Standardize work zone scheduling and tracking on our roadways



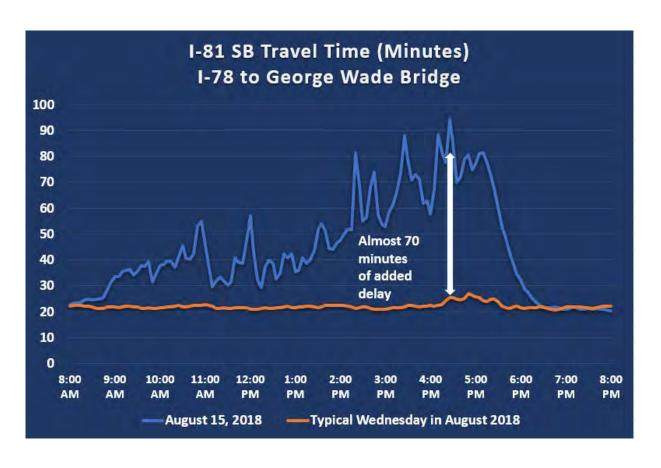


Yearly	Work Zone En	tries
CAUSE	ALL ROUTES	CORE NETWORK
ROADWORK	27,635	11,866
MOVING ROADWORK	6,239	4,325
UTILITY WORK	5,114	590
TOTAL	38,988	16,781





## NEED FOR A SYSTEM







### CURRENT PROCESS FOR TRACKING WORK ZONES

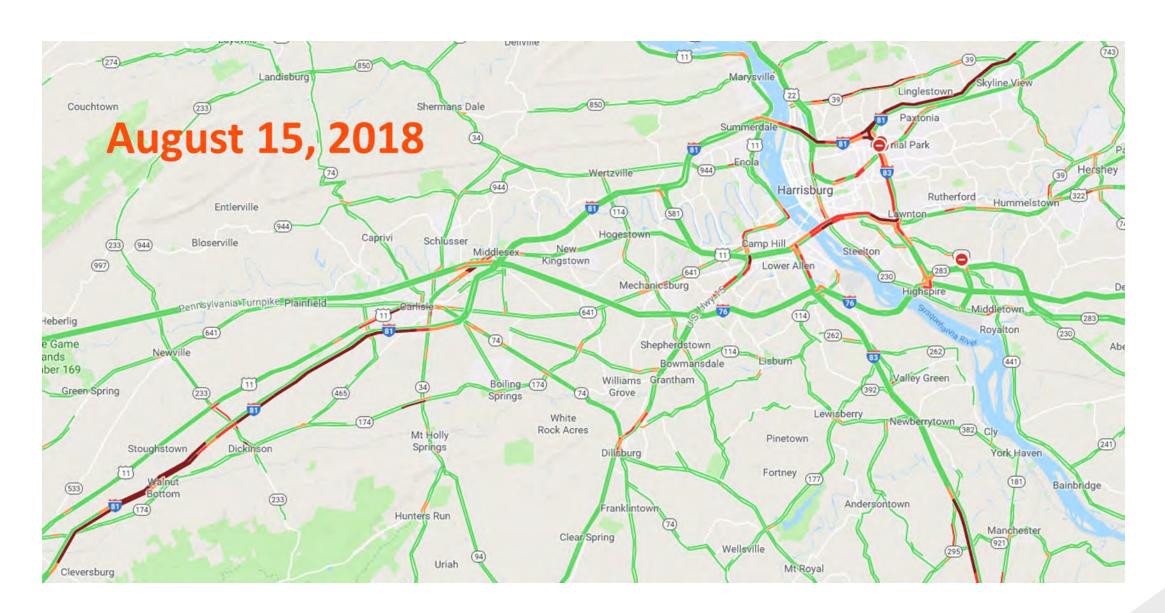
111	CLOSURES REQUIR	S AND OTHER LANE R	TRICTION FORM ENDOT PRESS OFFICE AT THE EMAIL ESTRICTIONS REQUIRE 5 DAYS' NOTICE ALL FORMS SHOULD BE SUBMITTED BY THE FOLLOWING WEEK, FAILURE TO Y RESULT IN POSTPONEMENT OF WORK TESSIG DA. 200
Today's	Date:		Econom
SR#	Section		ECMS#
	Section	(Northabel)	
Municipa	lities:		County:
indicate in	Bornugh or Township		
Name of	Road:		Direction:
(use near	Where & Where:	rchanges only)	
Type of R	Restriction:	re, full clasure, etc.)	
	CLOSED will detour b	e in effect only during w	vorking hours or 24 hours?
IF FULLY	OFFORED MILL DESGREE		
If FULLY	d Detour Route:		
Approve	d Detour Route:		
Dates of	Work: (start & finish)		
Dates of Restriction	Work: (start & finish)_ on Hours:_ or from work hours, e.g.	SAM to 3PM, SPM to SAM,	etc.)
Dates of Restriction	Work: (start & finish)_ on Hours: or from work hours, e.g.	SAM to 3PM, SPM to SAM,	efc.)
Dates of Restriction (may differ Saturday	Work: (star( & finish)_ on Hours:_ or from work hours, e.g. and/or Sunday Work	BAM to 3PM, BPM to SAM,	etc.)
Dates of Restriction (may differ Saturday Name of	Work: (star( & finish)_ on Hours:_ or from work hours, e.g. and/or Sunday Work	BAM to 3PM, BPM to SAM, 7 working for)	etc.)
Dates of Restriction (may differ Saturday Name of	Work: (star( & finish)_ on Hours:_ or from work hours, e.g. and/or Sunday Work	BAM to 3PM, BPM to SAM, 7 working for)	etc.)
Dates of Restriction (may differ Saturday Name of Permit or Contact I	Work: (star( & finish)_ on Hours:_ or from work hours, e.g. and/or Sunday Work Permitee (who you're to Application Number	SAM to 3PM, SPM to SAM,  ? working for) if no ECMS#: Phone #	etc.)

### Gaps/justification for changes:

- Separate, non-standard processes
- Duplication of efforts
- No automated conflict identification
- Work zones not captured
- Communication issues
- Lack of timely and accurate traveler information

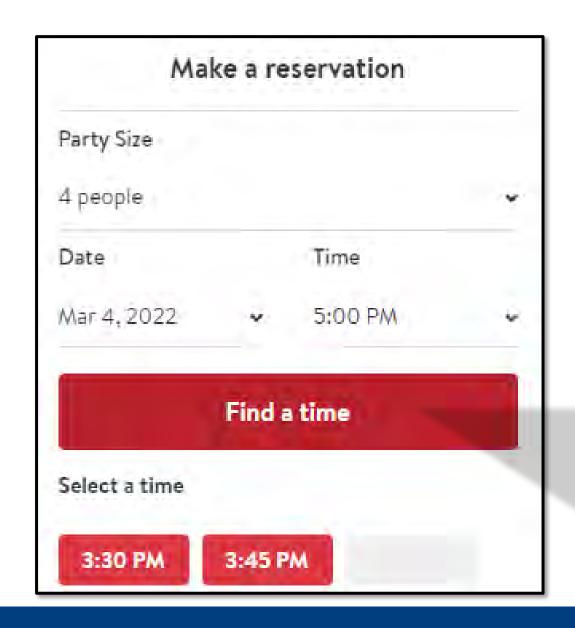


### CONFLICT MONITORING NEED

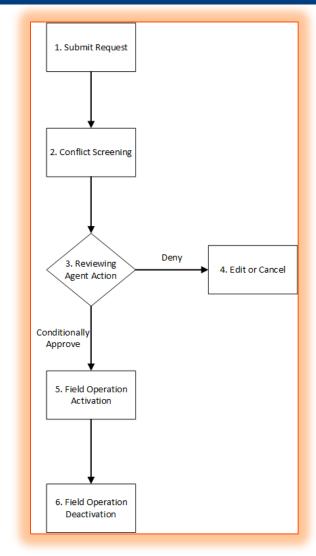




## LANE RESERVATION CONCEPT

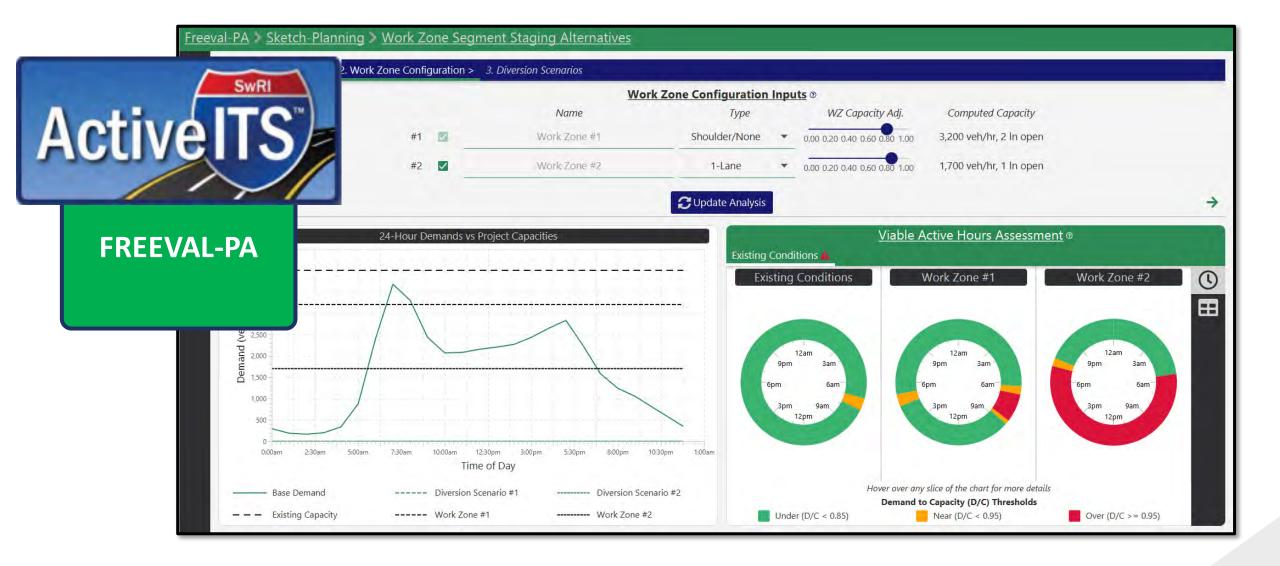








### FREEVAL INTEGRATION



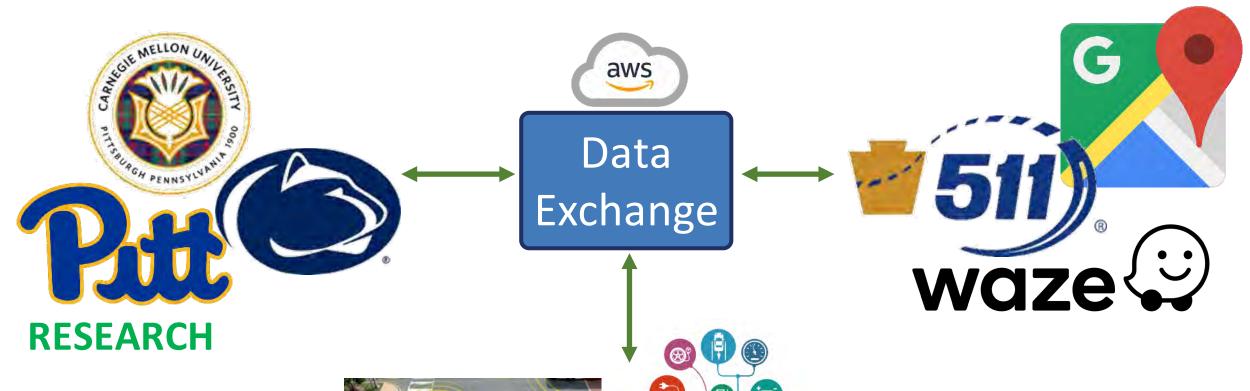


## FIRST STATEWIDE DATABASE





### CONNECTED VEHICLE DATA EXCHANGE



CONNECTED
VEHICLES and
INFRASTRUCTURE







## DEPLOYMENT TIMELINE UPDATE

ConOps and Requirements
Sept 22

LRS
Event Mgmt.
"Initial Phase"
Summer 23
Winter 23

LRS
Power User
Testing
Spring 24



Design,
Development,
and Testing
Winter 22/23

Policy Finalized and Training
Winter 23/24

Construction & Maintenance Testing
Summer 24



## CONCEPT OF OPERATIONS

More than four (4) working group meetings held.

- Over 50 PennDOT personnel across the state
- Design/Construction
- Maintenance
- Traffic Engineering





### PEER EXCHANGES







August 24, 2023

Traffic Management Center



### SUPPORTING A MORE EFFICIENT ROADWAY SYSTEM

- For this system to work appropriately, ALL parties, public or private have a responsibility to the economy and public safety to submit lane requests if they want to take capacity on critical roads
  - PennDOT, Contractor, Utility and other private traffic impacts (e.g. Stadiums)



# Questions/Feedback

Ryan McNary Chief, Operations and TSMO Performance Pennsylvania Department of Transportation

