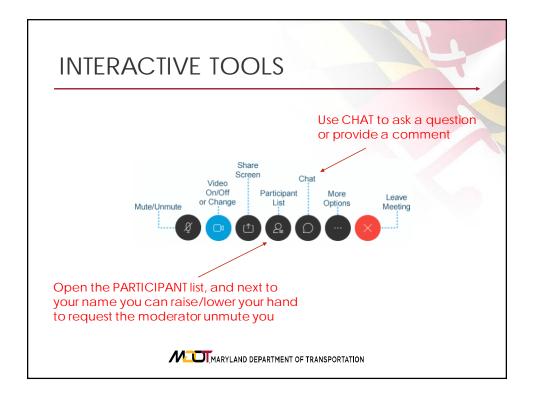
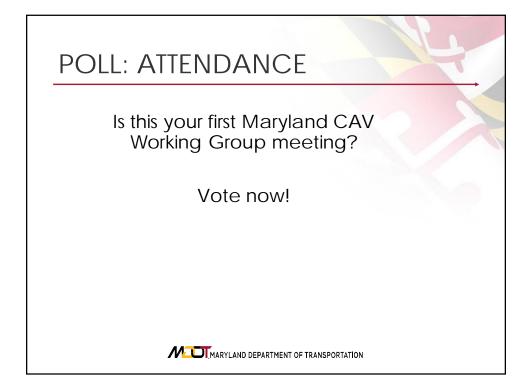
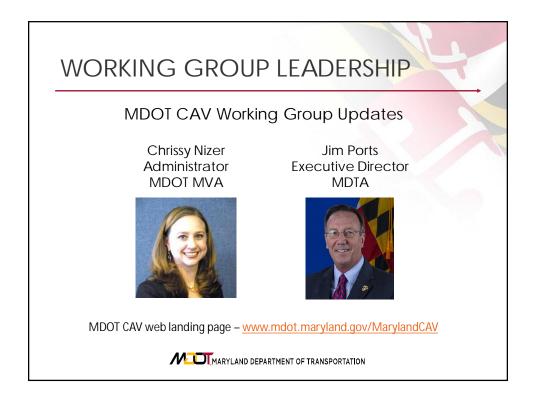


AGENE	A	
1:00 pm	Introductions & Opening Items	
1:20	CAV Shared Mobility	
1:40	FCC Proposed Rulemaking	
1:45	Panel Discussion: Preparing the Workforce for an AV Future	
3:00 pm	Adjourn	
	MOTMARYLAND DEPARTMENT OF TRANSPORTATION	

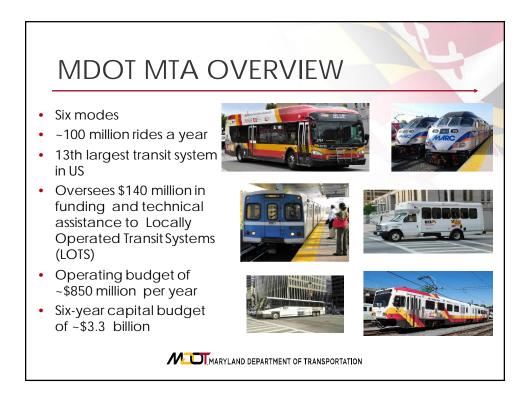










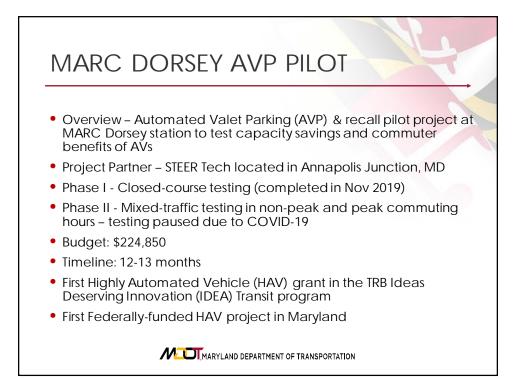


MDOT MTA CAV WORKING GROUP

- Created in Summer of 2017
- Comprised of Bus Operations, Maintenance, Safety, Labor Relations, Planning, Performance Management, Government Affairs, Transit Police and Innovation personnel
- Three active CAV projects since inception
- Recently completed a Shared Mobility Plan that includes highlevel CAV Policy and Planning



MITMARYLAND DEPARTMENT OF TRANSPORTATION



HOW IT WORKS



1) Send the car

Passengers exists vehicle and engages STEER app to command car to park itself



2) AV Launches

Upon exiting vehicle, car will drive itself into a designated parking spot

MUTMARYLAND DEPARTMENT OF TRANSPORTATION



3) Summon Car

When ready to depart, car is summoned through the STEER app for passenger pick up

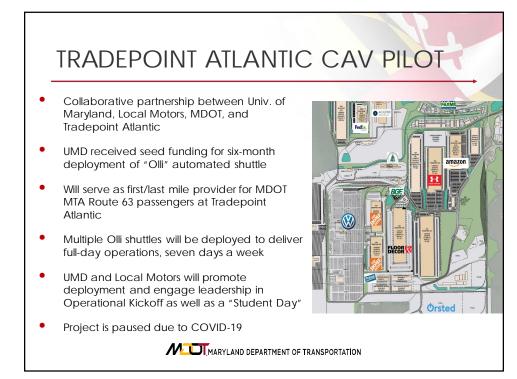
POTENTIAL BENEFITS

- MARC commuter lots are over capacity (Halethorpe example)
- Commuters sometimes have to walk over a mile to the platform
- Technology has the ability to save 25-28% in capacity due to not closing, opening doors
- App allows passenger to drive up to the curb, step out of the vehicle, and send the car to park autonomously
 - Saving time, increase reliability, and potentially increase ridership longterm

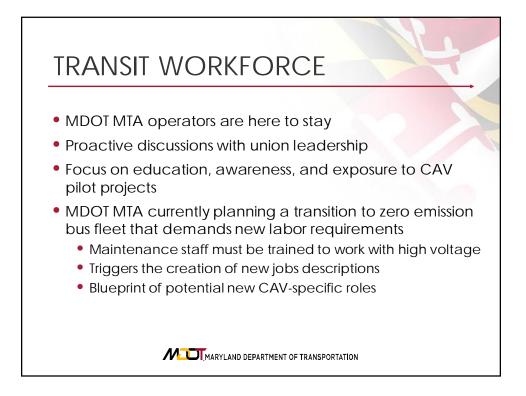
MUTMARYLAND DEPARTMENT OF TRANSPORTATION







MDOT	UMD	Local Motors	Tradepoint
Exposure to AV first/last mile	Technical analysis	Exposure to transit operations	Increased mobility options
Workforce education	Student research opportunities	Marketing opportunities	Exposure to AV shuttle operations
Enhanced passenger experience	Exposure to in- service transit operations		Improved tenant experience





FCC NPRM ON 5.9 GHZ

- Propose Rulemaking to reallocate more than half the spectrum for non-transportation purposes
- Widespread objections from automakers, infrastructure owners/operators, safety experts, and other stakeholders
- Comments closed 3/9, reply-comments close 4/27
- Uncertain when FCC will act
- Safety-oriented V2X apps may not evolve, existing projects may require updating
- US DOT has proposed "negotiated rulemaking"
- <u>https://www.transportation.gov/content/safety-band</u>

MOT MARYLAND DEPARTMENT OF TRANSPORTATION



Maryland department of transportation

The AV Workforce

Mark Wilson PhD School of Planning, Design and Construction Michigan State University



Urban and Regional Planning MICHIGAN STATE UNIVERSITY

Disruptive Technologies

- Workforce implications of disruptive technologies
- New ways of production may use different labor skills and materials
 - For AVs a shift towards electric power, software, communications
 - Occupations associated with conventional vehicle production decline, increase for advanced manufacturing and software occupations



Workforce Changes

- Operations use different inputs
 - When materials change, so does production
 - Reduced demand for drivers, new maintenance skills needed
- Related industries affected
 - For AVs, impact of shift to fleet sales vs individual ownership via dealers
 - Fleet maintenance vs dealers, mechanics



Workforce Changes



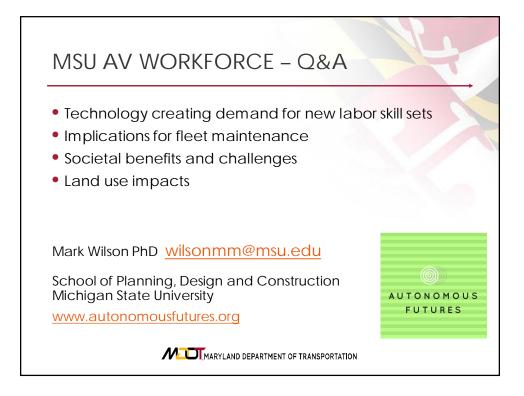
Indirect social implications

 If AVs change how and where people work and shop, then change in demand for labor

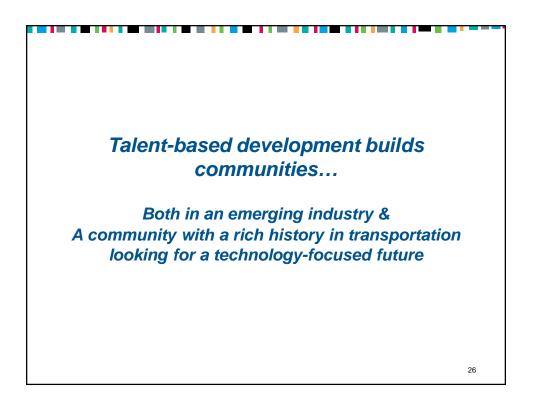
Workforce Changes

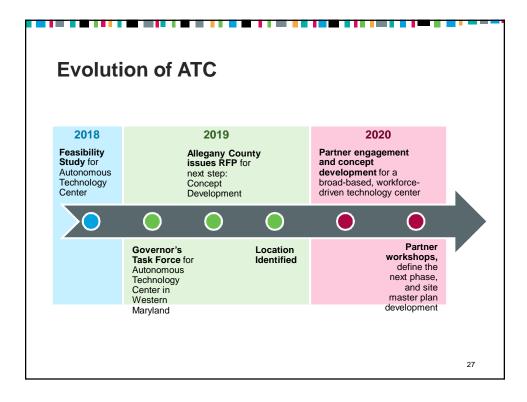
- Research at Michigan State University
- Implications for land use (Planning, Design & Construction)
 - Public willingness at adopt and change
 - Redevelopment of auto infrastructure (parking lot development, garage rehab)
- Safety sharing road with an AV
 - 31% would feel safe as a pedestrian; 18% feel safe as a cyclist; 34% safe driving a vehicle
- Workforce change (Shelia Cotton)
 - Changes in driving jobs

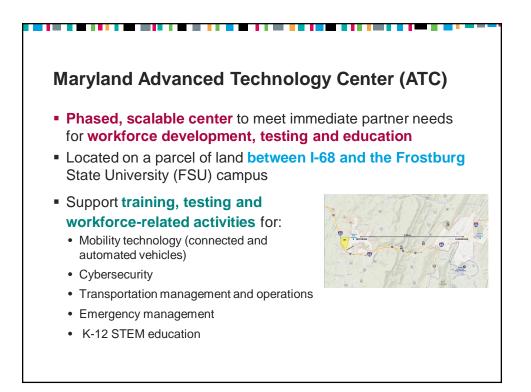












29

ATC Vision

Prepare Maryland and the nation's workforce & infrastructure for the future of technology with a focus on transportation, cybersecurity and automation.

