

Transit Technology and the Future of Mobility

Richmond Region Transportation Forum November 29, 2018

AICP Statewide Transit

Statewide Transit Planner







Integrated and Shared Mobility



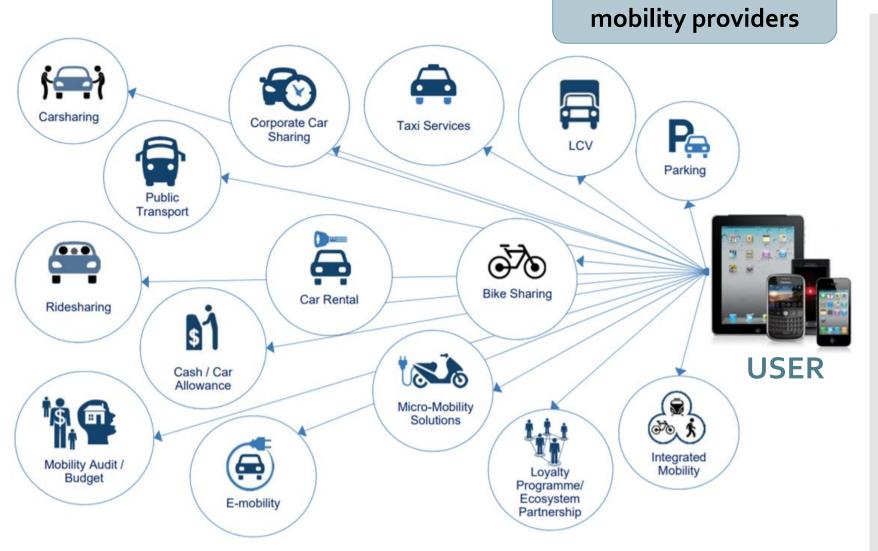
- Shared use of a vehicle or other mode
- Often enabled by technology
- Provides access on an "as needed" basis
- Examples:
 - Technology-enabled shuttle services (microtransit)
 - On-demand ride services (TNCs)
 - Bikesharing
 - Carsharing
 - Scooter-sharing



Trends in Mobility

Mobility on Demand (MoD)



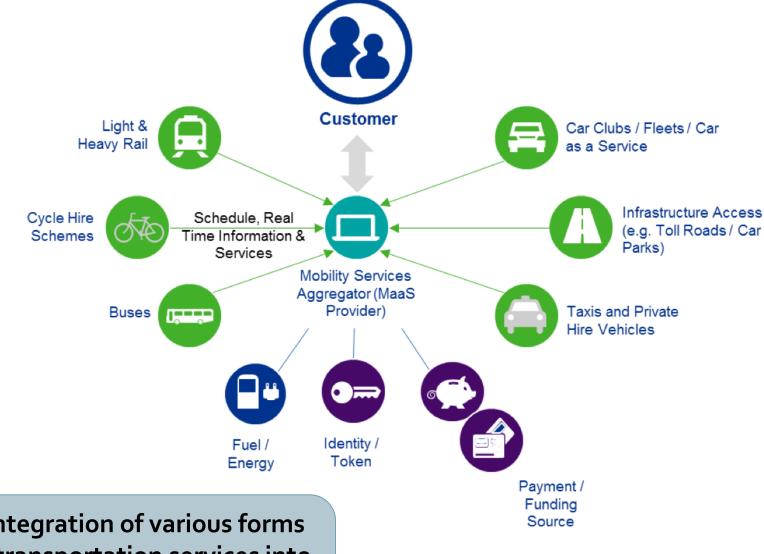


As-needed access to

Trends in Mobility

Mobility as a Service (MaaS)



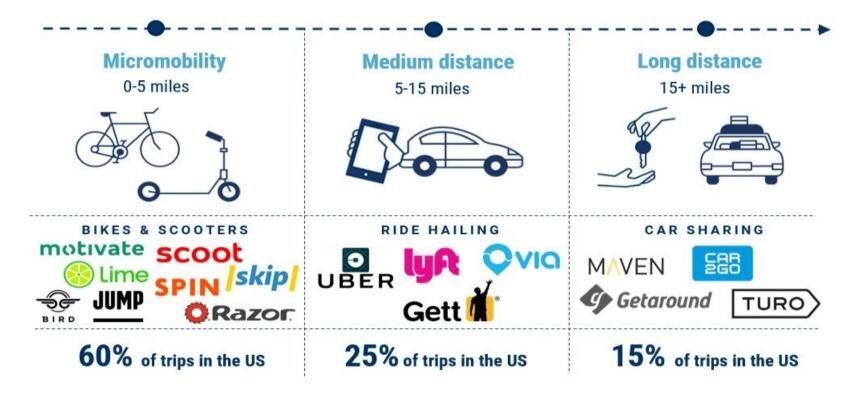


"Integration of various forms of transportation services into a single mobility service accessible on demand"

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Shared Mobility Alternatives



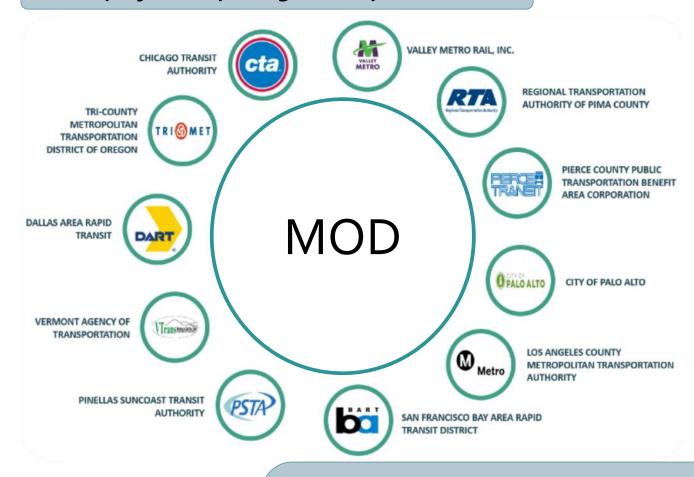


Source: NHTS

US Agencies and Shared Mobility

·BRPT.

Most projects exploring Mobility on Demand



Majority of shared mobility partnerships fall into the following categories:

- 1. First-mile/last-mile service connections
- 2. Gap service
- 3. Special purpose/Paratransit services

Total Mobility - related revenues in the US are



"a fundamentally new business ecosystem is emerging"

Source: Wall Street Journal

UBER



U.S. Transit Agencies 27 Million Daily Trips



75 Million Riders



4 Billion Annual Trips

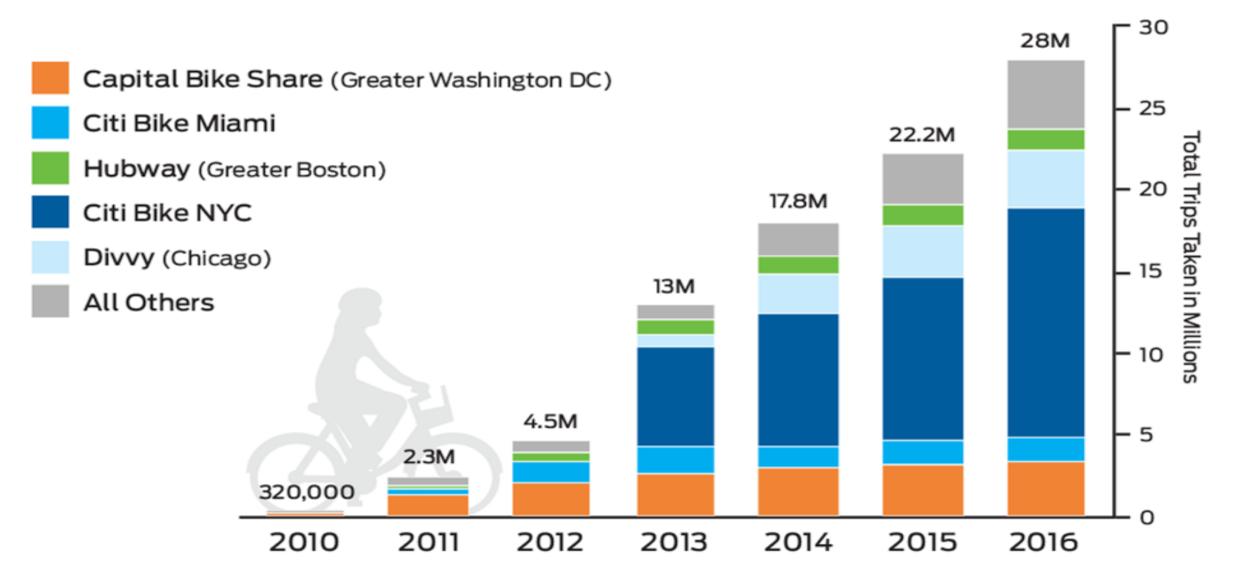


65 Countries 600+ Cities

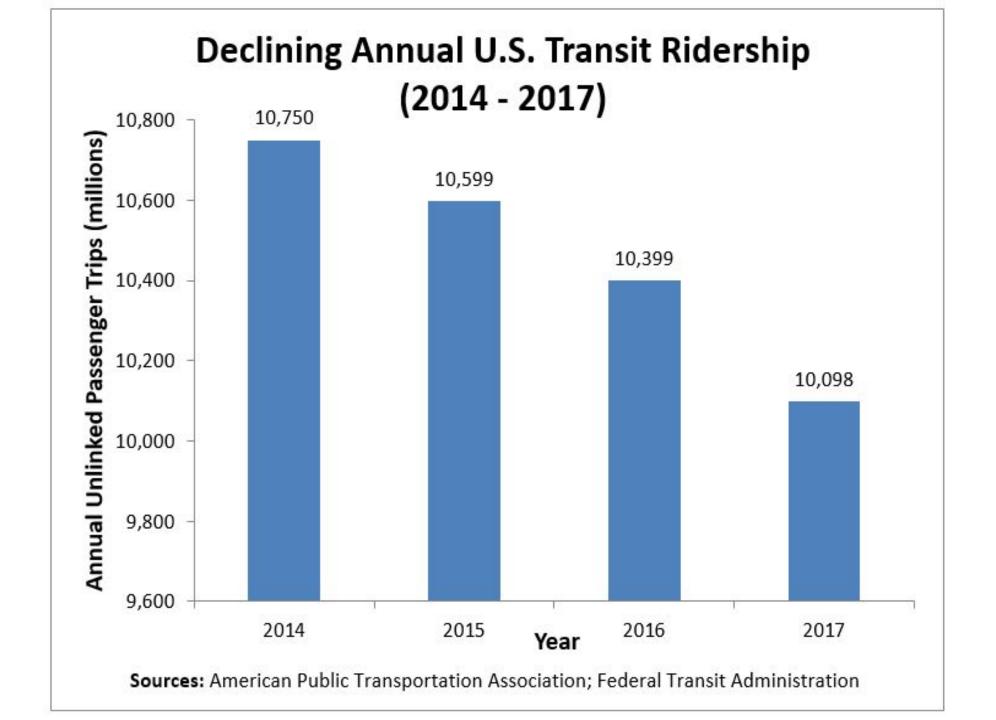


15 Million Daily Trips

Bike Share Ridership in the US by System

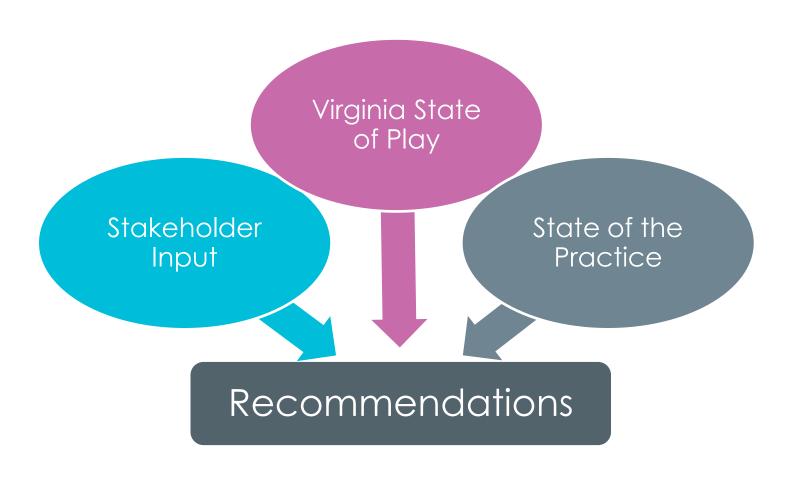


Source: NACTO

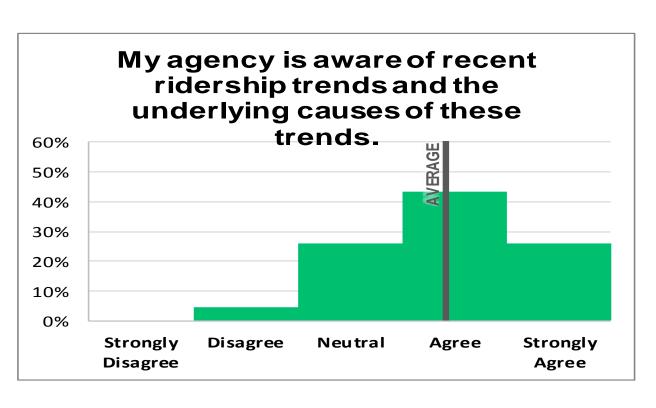


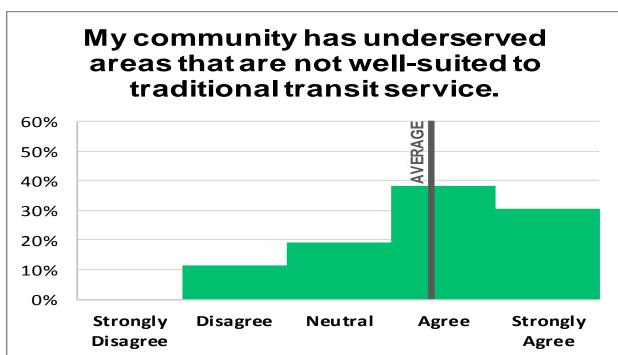
Statewide Integrated Mobility Initiative



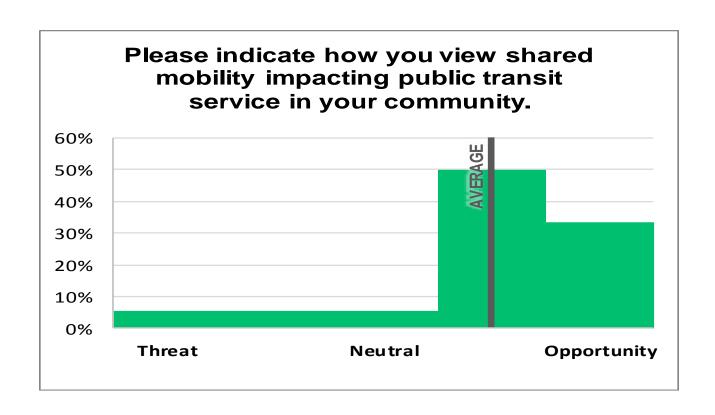


There is clear perception of a problem with ridership trends and the effectiveness of traditional transit services in certain areas

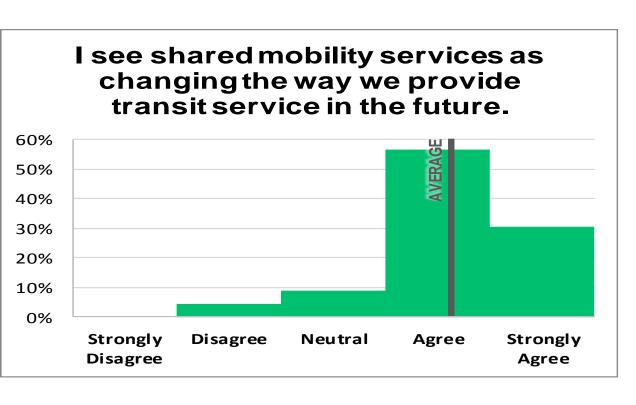


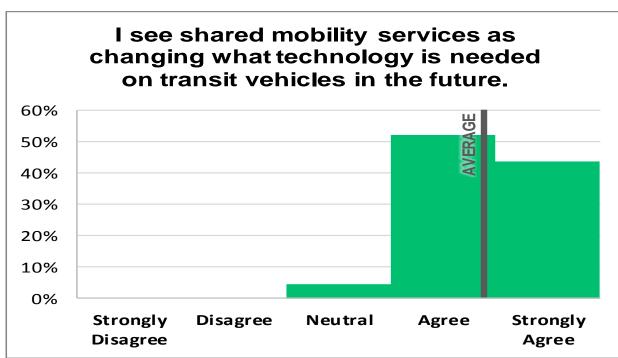


Shared mobility services are seen more as an opportunity rather than a threat to public transit service in Virginia

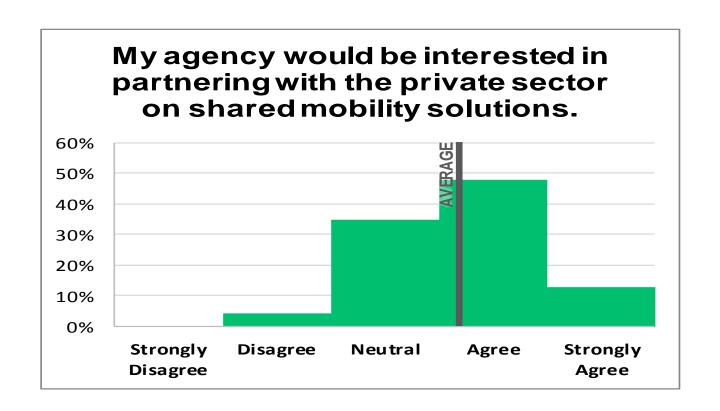


There is a collective view that transit will change in the future.





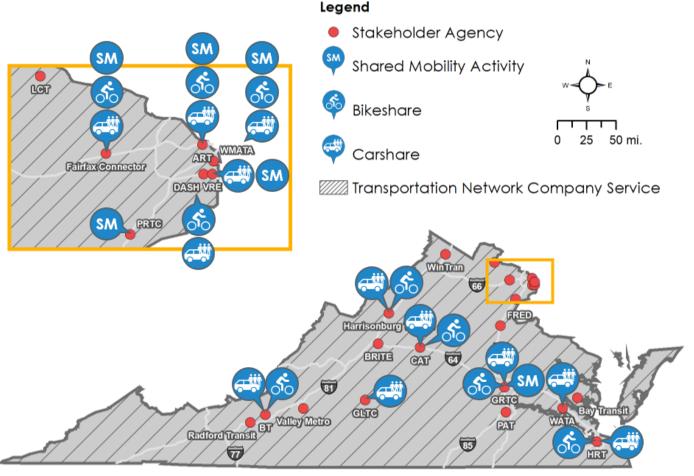
There is a mix of agency interest, readiness, and executive support for partnering with shared mobility providers



Active Work in Virginia

·BRPT.

Traditional demand response is viewed as the extent of shared mobility services in many communities



Note: Shared mobility services as of September 2018; TNC service availability varies based on supply of drivers.

Several transit agencies are beginning to explore alternative transit services or partnerships

Active Work in Virginia



- On-demand/reservation companies which coordinate with private vehicle operators
- Customer eligibility requirements
- Customer provides \$6 co-pay and GRTC subsidizes up to \$15





- Completed Mobility On-Demand Healthcare Access Feasibility Study
- Funding for on-demand shuttles between neighborhoods and park and ride lots
- Funding for flexible vanpool program





Active Work in Virginia

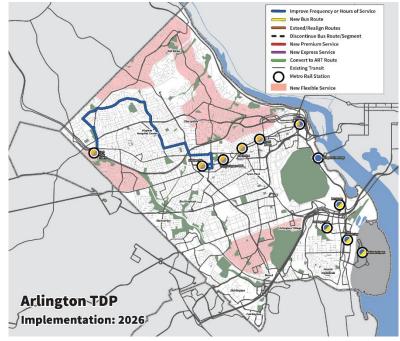
BRPT.

Arlington County/MWCOG

- Looking at a flex service concept for lower density neighborhoods
- Defining parameters, zones, and standards of success

Fairfax County

 Alternative transit study will be looking at a range of flexible, alternative transportation services including autonomous vehicles



Potential Arlington Flex Service Areas

Virginia Railway Express

 Updating VRE Mobile to include links to Lyft, Car2Go, Zipcar, and Capital Bikeshare

What does the future hold?



- Multimodal and TNC services are going to stay
- Several transit agencies are beginning to explore alternative transit services or partnerships
- Uncertainty in the future
- Operations and business change will occur
- Agencies are ready for pilots and funding opportunities



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Richmond Region Transportation Forum November 29, 2018 Tiffany Dubinsky,
AICP
Statewide Transit

Planner