

AV/active transportation safety & street design considerations



125



14.36



581 238 334
12.93 11.36 12.76



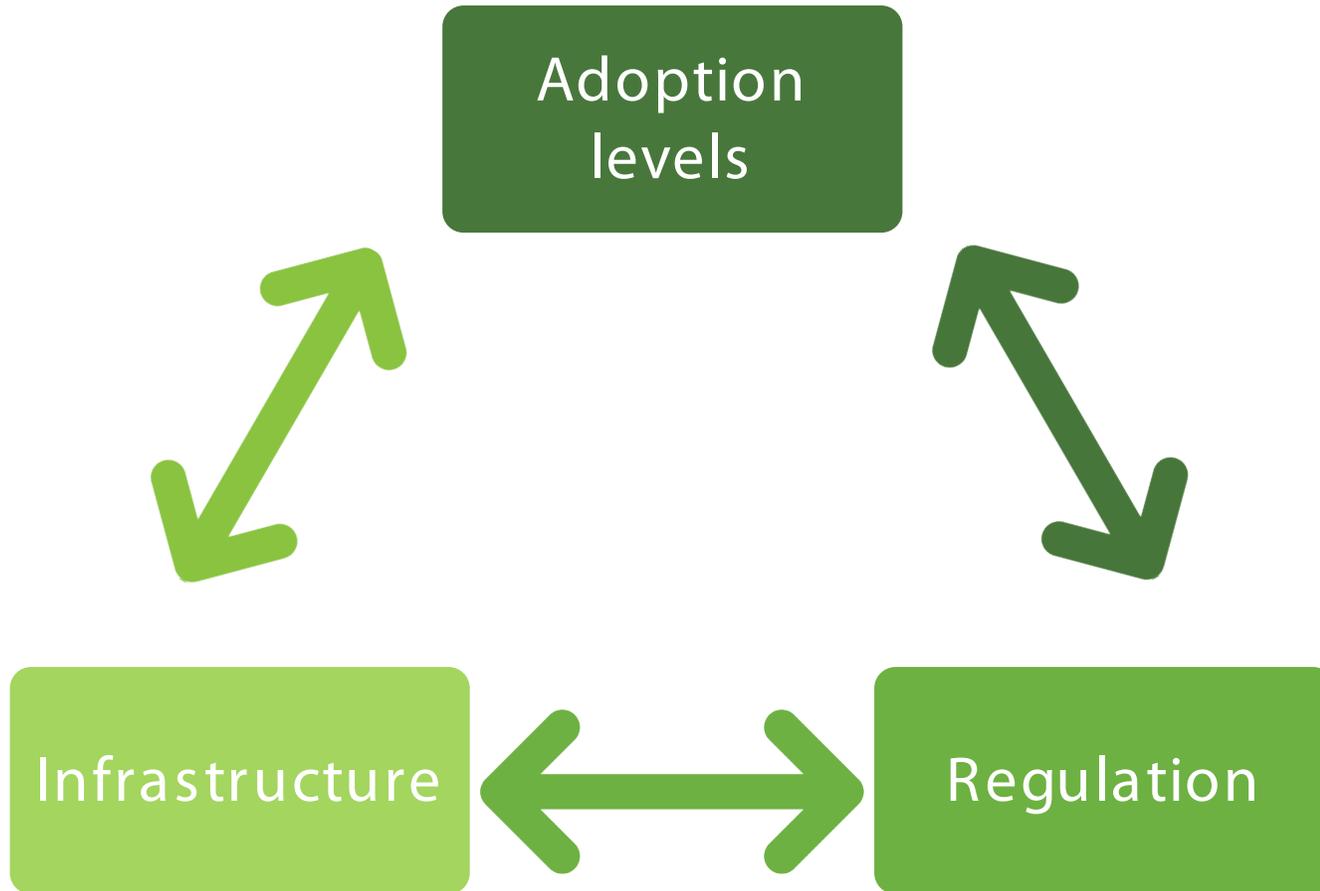
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355
10.26



Depends is a Function Of...



We Have a Few Outstanding Questions

Over what time horizon will they be adopted?
Where will they operate and who sets the agenda / controls that?
Will they be allowed to operate everywhere? Or will there be AV-free areas? AV-only areas?
Introduce some silly adoption curve, something like ReThinkX
Will network effects cause them to be adopted faster?
Are there certain demographics or areas that will resist sharpest?
Are companies going to sell you cars (ownership) or sell you miles (fleet
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What will they look like?

Will cities and/or states be accommodative, skeptical, restrictive?

Over what time horizon will they be adopted?

Ownership v Fleet

How affordable will they be to purchase or hire?

What type of Infrastructure or other public investment will be

How human drivers & people walking and biking
will interact with AVs

What local, state, and national safety policies
are enacted

Existing strategies

Proactive
planning



Existing strategies

Reducing
speeds &
vehicle
exposure



Curb extensions



Median refuge islands



Speed limits



Road diets

Existing strategies

Shared streets or separated facilities

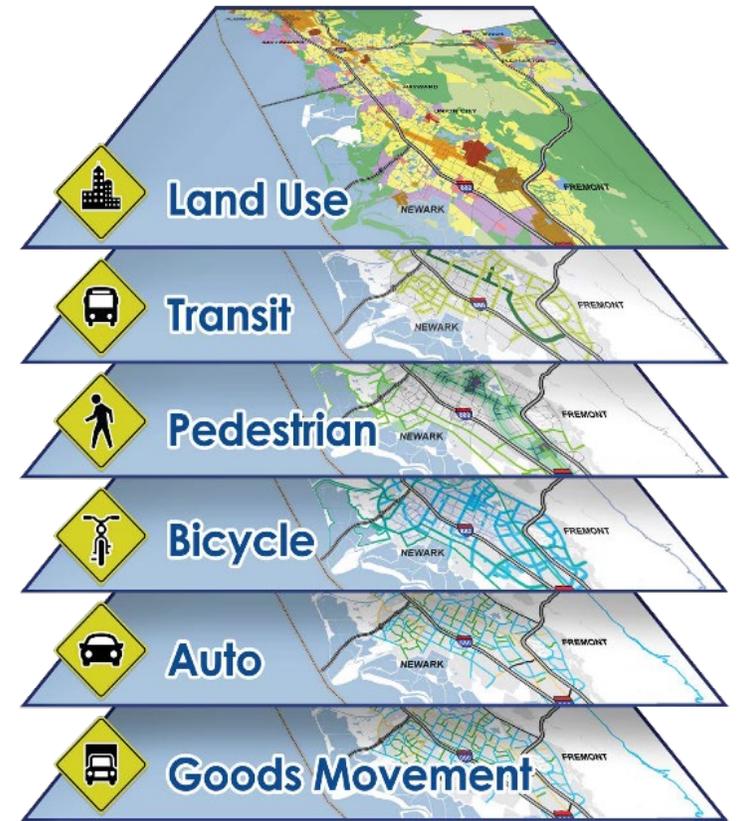


Shared streets



Separated bike lane

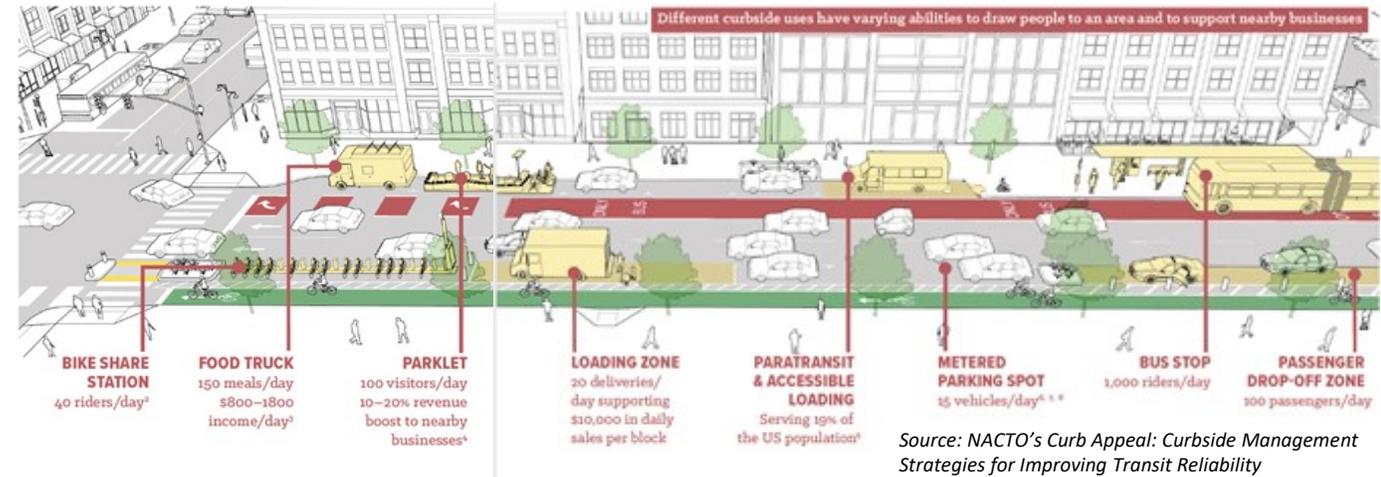
Source: Project
for Public Spaces



Layered Network Approach

Existing strategies

Curbside & parking management



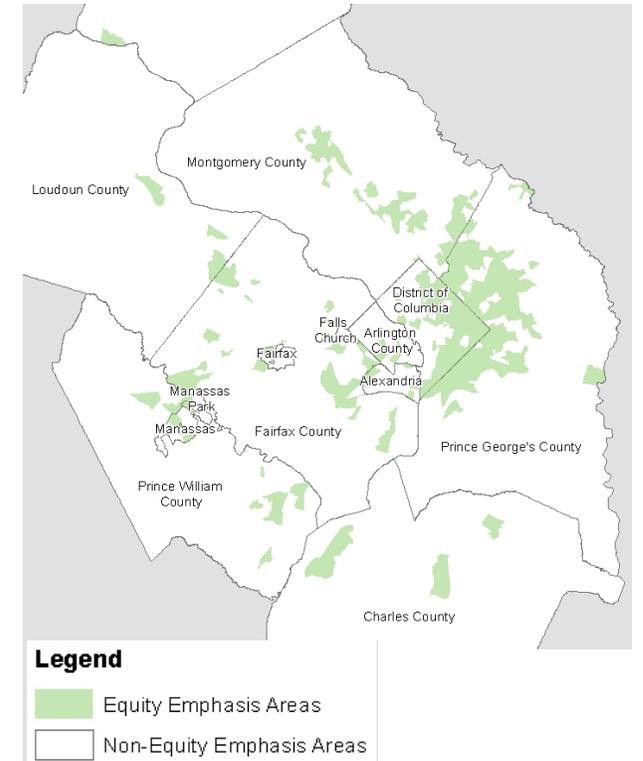
Existing strategies

Equity



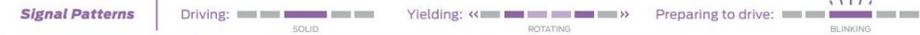
Where Are Self-Driving Cars Taking Us?

Pivotal Choices That Will Shape DC's Transportation Future



New strategies

- Human Machine Interface
- Changes to signals
- Dynamic traffic control
- Dynamic curbside management



Source: Ford AV Safety Report



Other considerations

- Materials, quick build & temporary traffic control
- Education
- Consistency across jurisdictions
- Transition period



Source: Melanie Curry/Streetsblog



An aerial photograph of a city street featuring a white-striped crosswalk. Five pedestrians are captured in various stages of crossing. A woman in a light blue shirt and jeans with a black backpack is walking towards the right. A man in a white shirt and dark trousers is walking towards the left. A woman in a patterned dress is walking towards the left, carrying a child on her back. A man in a dark shirt and black pants is walking towards the left. A woman in a dark shirt and light-colored pants is standing on the left side of the crosswalk, looking at her phone. The scene is brightly lit, casting distinct shadows on the asphalt.

Thank you!

Eleanor Leshner, Fehr & Peers
e.leshner@fehrandpeers.com