



The Autonomous Revolution & Local Government

Challenges & Opportunities

Kyle Clark-Sutton



OOOPS!



Rethinking the curb

Challenge: Most new trends that impact transportation and roads require curb space. Autonomous vehicles will be no different.



Opportunity: Increased demand for curb space could present new revenue opportunities for municipalities.

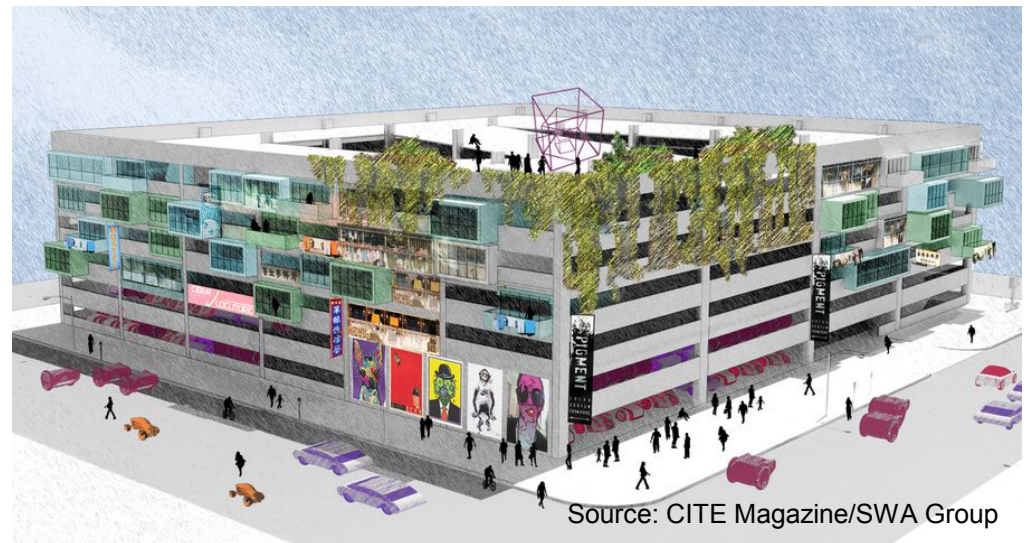
Parking

Shared autonomous vehicles don't have the same need for parking as traditional vehicles.

But over 260 million traditional vehicles remain on the road today, and will for some time.

Challenge: To plan for future needs while meeting the needs of today.

Opportunity: Some parking space can be reclaimed for more productive uses



Source: CITE Magazine/SWA Group

Congestion



Ease of
Driving



Willingness
to Commute



Congestion &
Sprawl



Density



Public Transit

*Transit
Subsidy
Range* **76% - 91%**

*Average share of
operating costs that
go to employees* **70%**

Challenge: Ridesharing is cannibalizing public transit revenues

Opportunity: Autonomous technology could reduce reliance on subsidies and improve service



Equity

Challenge: Ensure that the autonomous revolution happens for all, not just the wealthy



Opportunity: Autonomous and right-sized shared vehicles can extend mobility networks into underserved areas, increasing access to jobs and services

Economic Implications

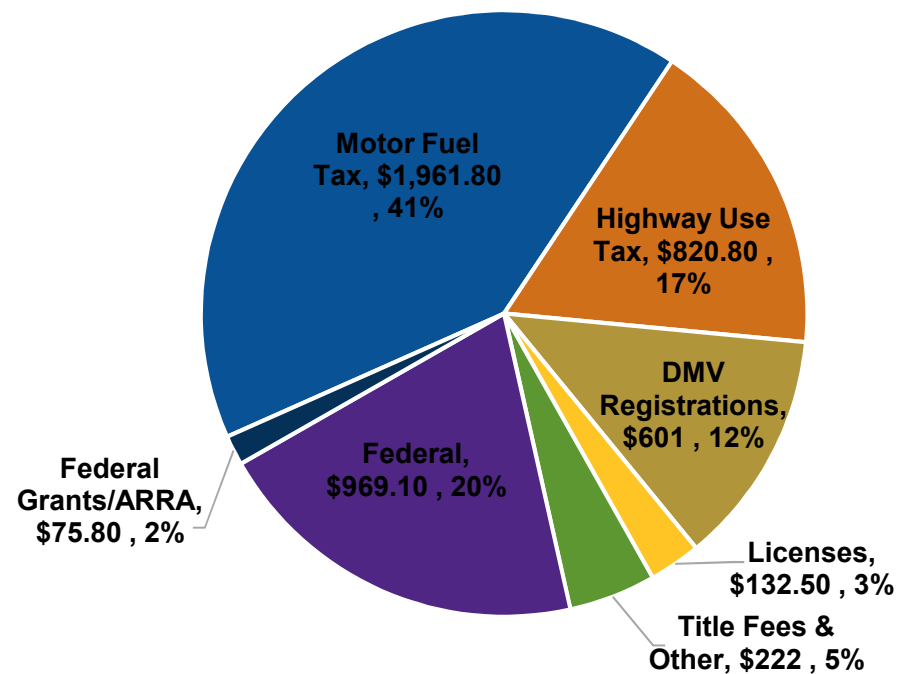
Challenge:

78% of state transportation funding in NC comes from a tax or fee that is vulnerable to changing travel behaviors

Opportunity:

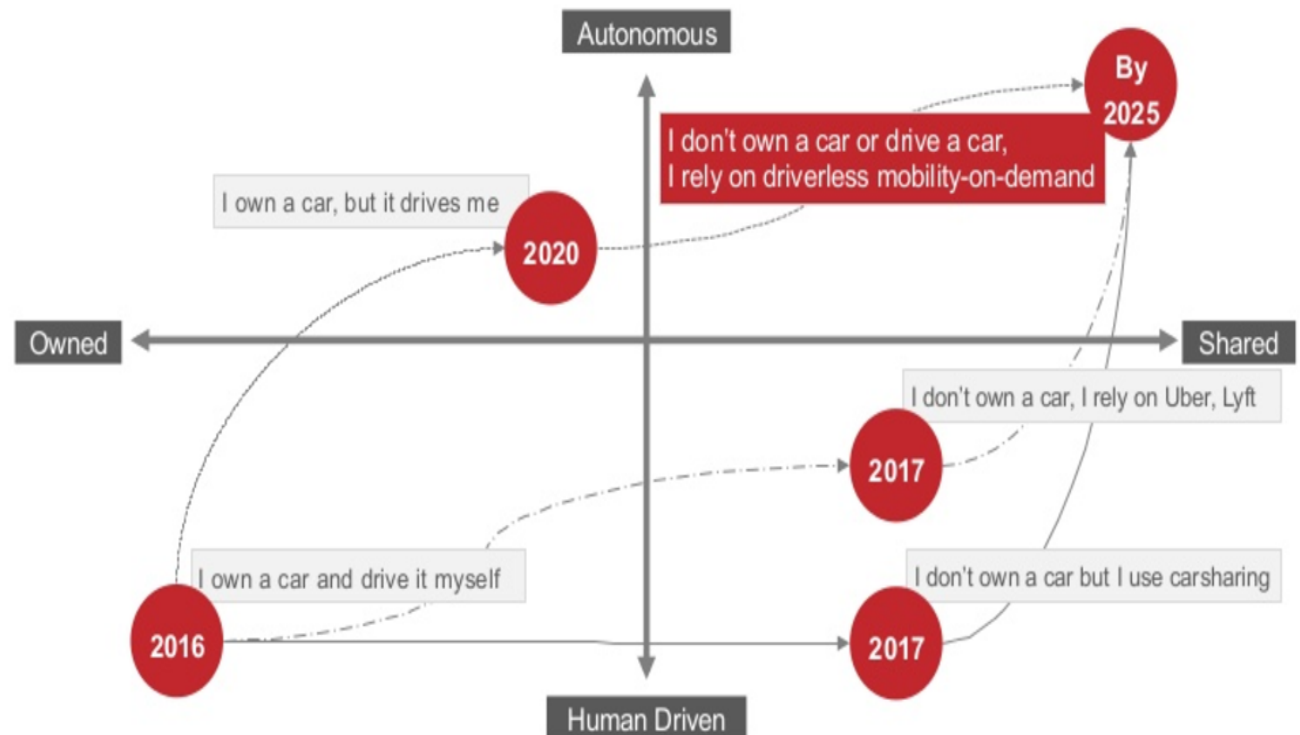
- Curb Congestion Pricing
- VMT Tax Models
- Savings

NCDOT Revenue Sources (\$ millions, SFY2018)
Source: NCDOT



Factors influencing the impact of CAVs

- **When?**
- **Private Mobility v. Shared Mobility**
- **How willing are we to price transportation choices appropriately?**



Discussion

- What are your biggest challenges?
- What do you see as opportunities?
- What information do you lack for decision-making?

Thank you!

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Housing preferences and density



Ease of Driving



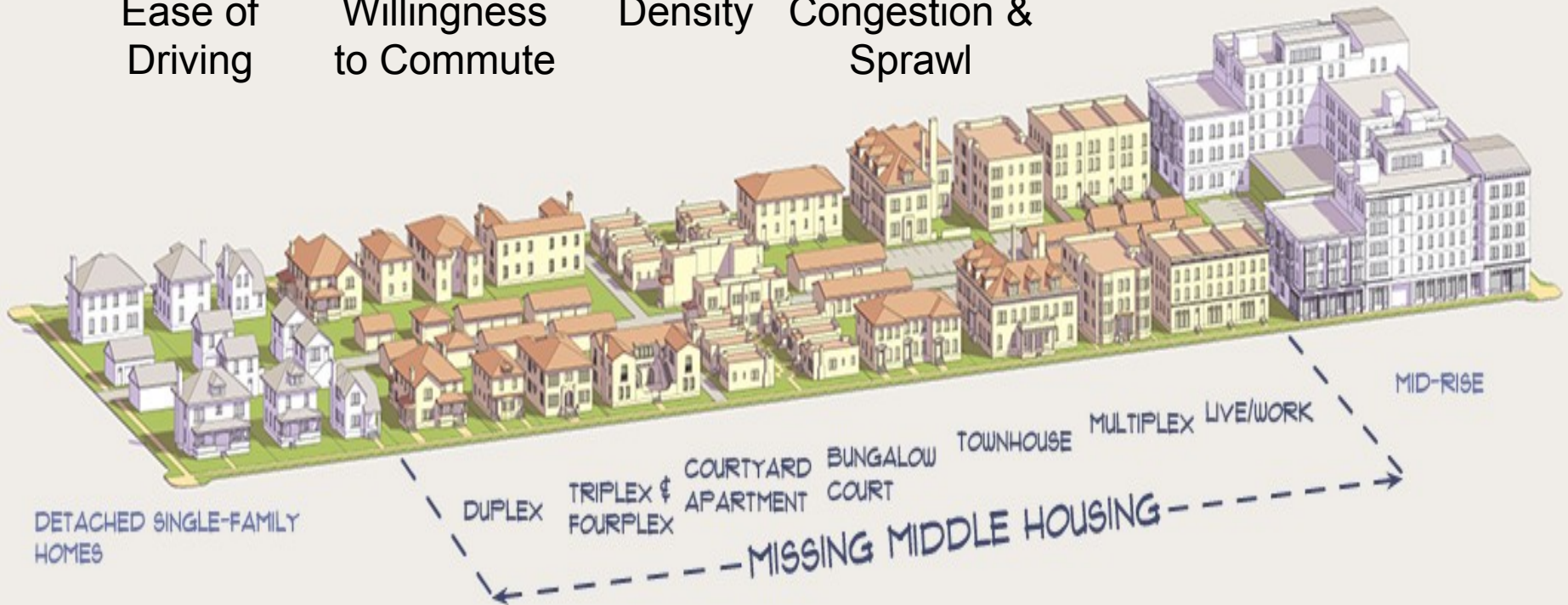
Willingness to Commute



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Congestion & Sprawl



Agenda



**Challenges &
Opportunities**

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**Factors influencing the
impact of CAVs**

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Discussion