Transportation Investment Needs Simulator (TINS)

August 30, 2019



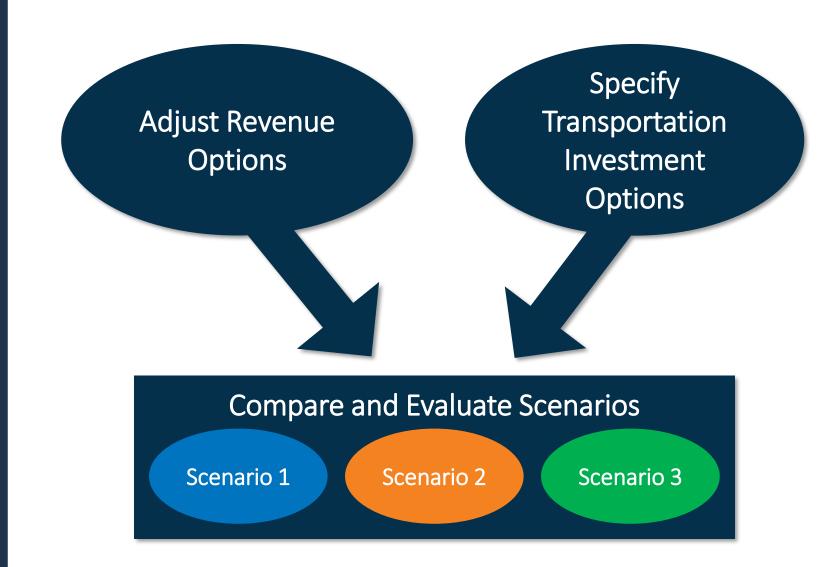


TINS

Overview

Objective:

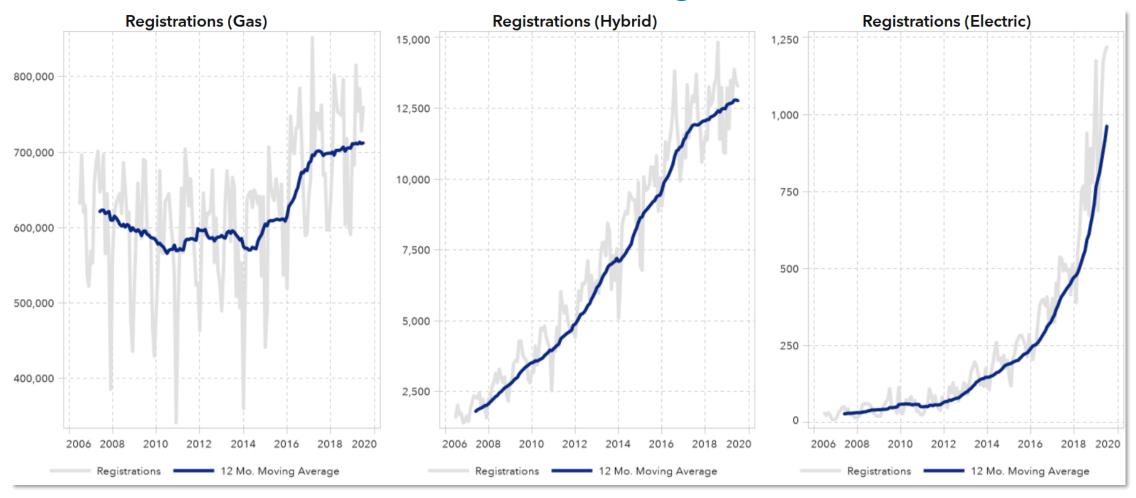
This NCDOT Investment Calculator is a tool that enables users to find options to pay for enhancements to the transportation system.





Background

Historical NC Vehicle Registrations

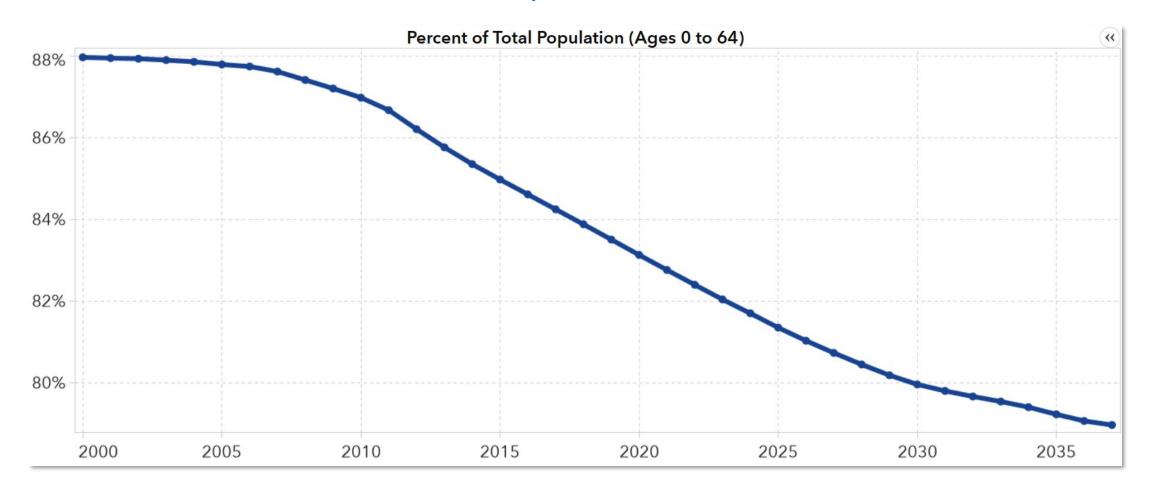


More fuel efficient vehicles on the rise



Background

Population

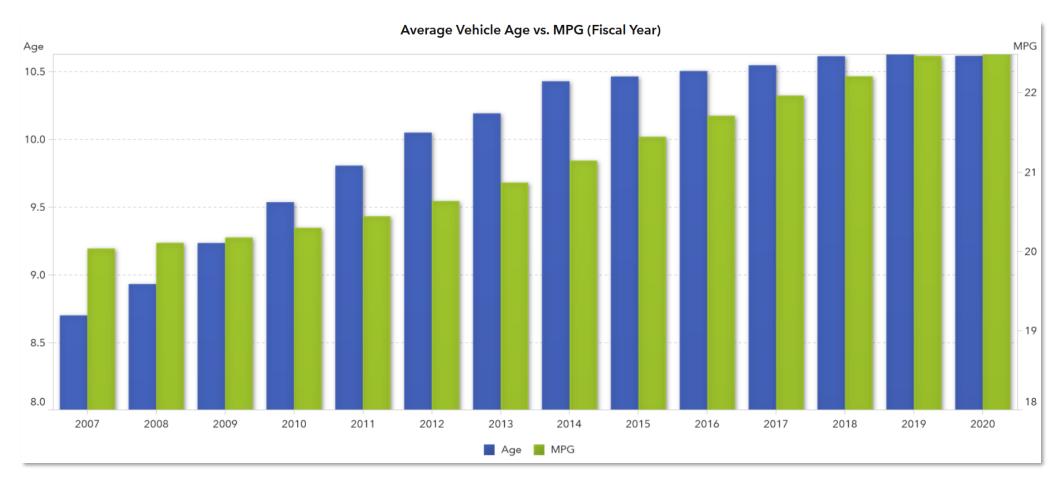


Driving population expected to continue to decrease



Background

Average Vehicle Age vs. MPG



Average vehicle age and MPG both on the rise



Proposed

\$45.0B

Transportation Goals







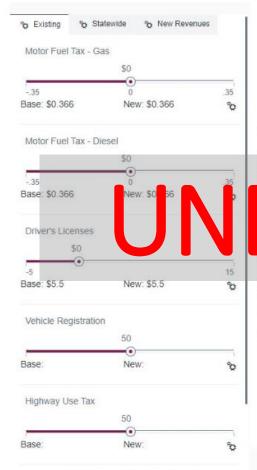
10 Year Revenue

Current

Proposed

\$45.0B

\$45.0B



10 Year Citizen Cost

Current

Proposed

\$480

\$570



NCDOT Investment Calculator

Transportation revenues are essential to provide a connected and multi-modal transportation infrastructure, which is critical to the State's economic vitality. This NCDOT Investment Calculator is a tool that enables users to find options to pay for enhancements to the transportation system. Based on your selections, you will learn how much these changes cost each person, how much it costs NCDOT to implement and the level of economic benefit to

a Options

transport de. The i ting one ents on the proven nts can b sidewalks and use the par to add sidewalks. The cost to create the transportation enhancement appears at the top right cor

Step Two: Choose Revenue Options

The left-side contains options to increase revenues to pay for your transportation enhancement. Choose one or more options to alter existing revenue sources or diversify revenues by adding a new funding source. Try to balance the amount you spend and the amount of revenue you raise.

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Step Three: Compare Options

You can create three scenarios to build your ideal transportation network. You can scroll between these scenarios at the bottom of the screen.

Highway value 24700 miles (e) 24753 Base: 24753

Current

\$45.0B



Economic Benefits

Current

Proposed

\$25B

\$35B

34863

New: 24753

Scenario 1

Select

Revenue: \$0 Expenditure: \$0

Select Revenue: \$0 Expenditure: \$0

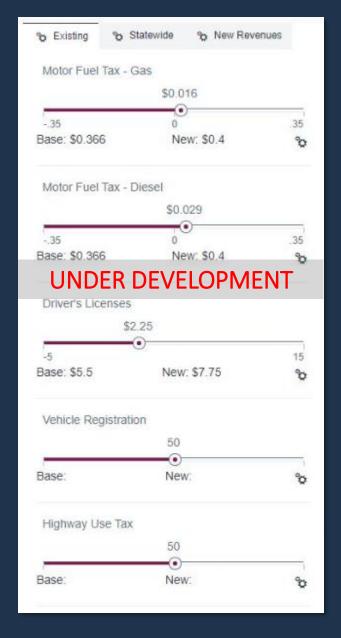
Scenario 2

Select Revenue: \$0 Expenditure: \$0

Scenario 3



Revenue



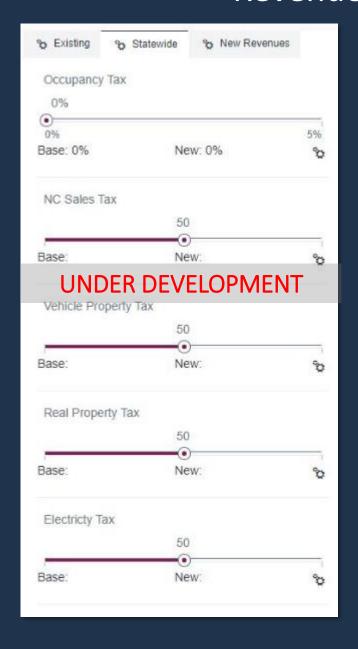
Existing Transportation Revenue Sources

- MFT Gas Tax*
- MFT Diesel Tax*
- Driver Licenses*
- Vehicle Registrations
- Highway Use Tax Rate
- Electric Vehicle Fee

^{*}Underlying data received; calculation for 10-year revenue amount is working in demo



Revenue



Statewide Revenues

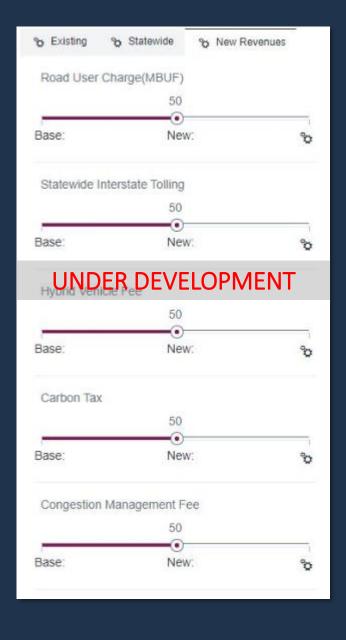
- Occupancy Tax*
- NC Sales Tax
- Vehicle Property Tax
- Real Property Tax
- Electricity Tax

Proposal: Allocate portion of collected statewide revenues to meet transportation needs

^{*}Underlying data received; calculation for 10-year revenue amount is working in demo



Revenue



Potential Revenue Sources

- Road User Charge (MBUF)
- Statewide Interstate Tolling
- Hybrid Vehicle Fee
- Carbon Tax
- Congestion Management Fee/Toll
- Transportation Network Companies gross premium/sales tax
- Car Subscription / Car share taxes



Transportation Goals



Categories

- Highway (Roads and Bridges)*
- Public Transit (Bus Lanes)
- Aviation (Airport repair/renovations)
- Ferry (Upgrades to fleet)
- Rail (New rail lines)*
- Bicycle and Pedestrian (Additional paths)

^{*}Underlying data received; calculation for 10-year revenue amount is working in demo



TINS Next Steps

- Receive feedback from NC First Commission
- Complete buildout of remaining revenue and investment options
- Quality Assurance
- Production





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