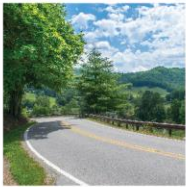




NORTH CAROLINA

Department of Transportation



Investment Needs

Amna Cameron

November 20, 2020

Agenda

- Review and compare three investment analyses from:
- Institute of Transportation Research and Education, NC State University
- NC MOVES (previously presented)
- NC FIRST Analysis

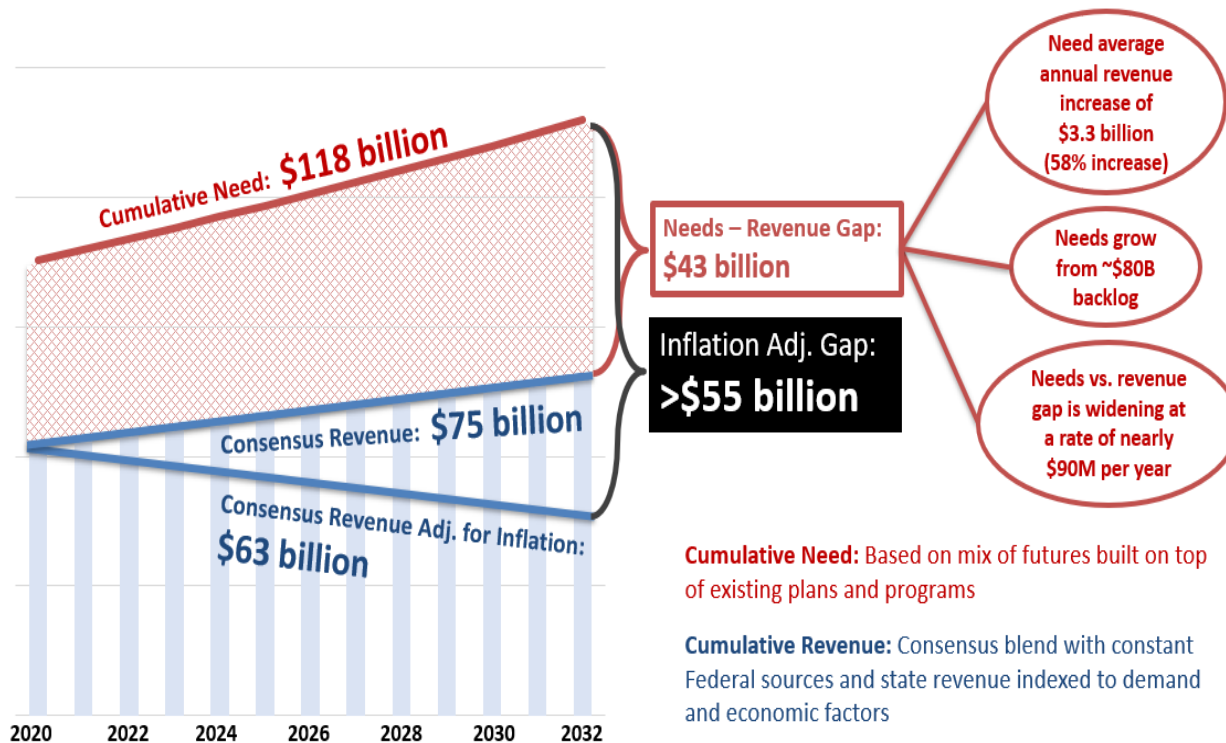
ITRE/NC Chamber Foundation

- Annual needs
- With \$5.0 billion existing investment, NC currently ranks as a “C”

Infrastructure Condition	Annual Systems Needs in \$Billions
Very Poor (F)	<\$3.8
Poor (D)	\$3.8-\$4.8
Mediocre (C)	\$4.8-\$6.3
Good (B)	\$6.3-\$8.2
Excellent (A)	>\$8.2

NC MOVES

- 10-year estimate: \$43 Billion
\$55 Billion (inflation adj)



NC FIRST

Investment Need (Billions)	Grade D	Grade C	Grade B	Grade A
Highway Maintenance - Roads	\$0.00	\$1.03	\$1.64	\$2.25
Highway Maintenance- Bridges	\$0.00	\$0.45	\$0.61	\$0.75
Highway Construction	\$1.60	\$7.00	\$19.80	\$27.60
Airports HTF Construction	\$0.02	\$0.02	\$0.04	\$0.07
Airports HF Construction	\$0.22	\$0.31	\$0.65	\$0.81
Ferry	\$0.20	\$0.22	\$0.23	\$0.27
Integrated Mobility	\$0.42	\$0.70	\$1.00	\$1.44
Rail	\$1.03	\$2.23	\$3.54	\$4.67
TOTAL	\$3.49	\$11.96	\$27.51	\$37.86

NC FIRST Analysis

10-Year Investment	Grade D	Grade C	Grade B	Grade A
Annual vehicle operating costs from road condition (per person)	\$122	\$115	\$83	\$50
Pavement Condition	74% "Good"	79% "Good"	85% "Good"	90% "Good"
Bridge Condition	42% "Good"	42% "Good"	70% "Good"	98% "Good"
Highway Construction STIP Projects	Projects score 80 - 100 points	Projects score 70 -80 points	Projects score 60 -70 points	Projects score 50-60 points
Aviation	Safety and Condition Improvements	Navigation aid and runway lighting improvements	Taxiway and apron improvements, IT upgrades	Capital building improvements, equipment, fencing
Passenger Rail	New stations Southeast Corridor (Raleigh to Richmond)	Expand rail service Expand to Henderson	Expand rail service Expand to Ridgeway and Norlina	
Freight Rail	Short line railroad improvements			
	Highway grade separations (25%)	50%	75%	100%
	Corridor and facility improvements (25%)	50%	75%	100%
Ferry	Dock repairs; vessel rehabs	Pilings; shipyard improvements	Ramps, bulkheads, and pilings	Ramps and Gantries
Integrated Mobility	Electrifies the transit fleet in four equal stages			
	Projects score 80 - 100 points	Projects score 70 -80 points	Projects score 60 -70 points	Projects score 50-60 points

Comparison – Grade A

(Billions)	ITRE	NC MOVES	NC FIRST
Annual	\$3.2	\$4.3	\$3.8
10-Year	\$32.0	\$43.0	\$37.9
10-year (Inflation adj.)	\$40.9	\$55.0	\$48.5

Comparison – Grade B

(Billions)	ITRE	NC MOVES (Same as A)	NC FIRST
Annual	\$1.3-3.2	\$4.3	\$2.7
10-Year	\$13.0-32.0	\$43.0	\$27.5
10-year (Inflation adj.)	\$16.6-40.9	\$55.0	\$35.2

Comparison – Grade C

(Billions)	ITRE	NC MOVES (Same as A)	NC FIRST
Annual	\$0-1.3	\$4.3	\$1.2
10-Year	\$13.0-32.0	\$43.0	\$11.9
10-year (Inflation adj.)	\$16.7-40.9	\$55.0	\$15.2