

Welcome

A strategic transportation plan connecting communities across North Carolina, focused on creating a more responsive, diverse, and inclusive transportation system for keeping people and freight moving safely and efficiently.



NC MOVES 2050

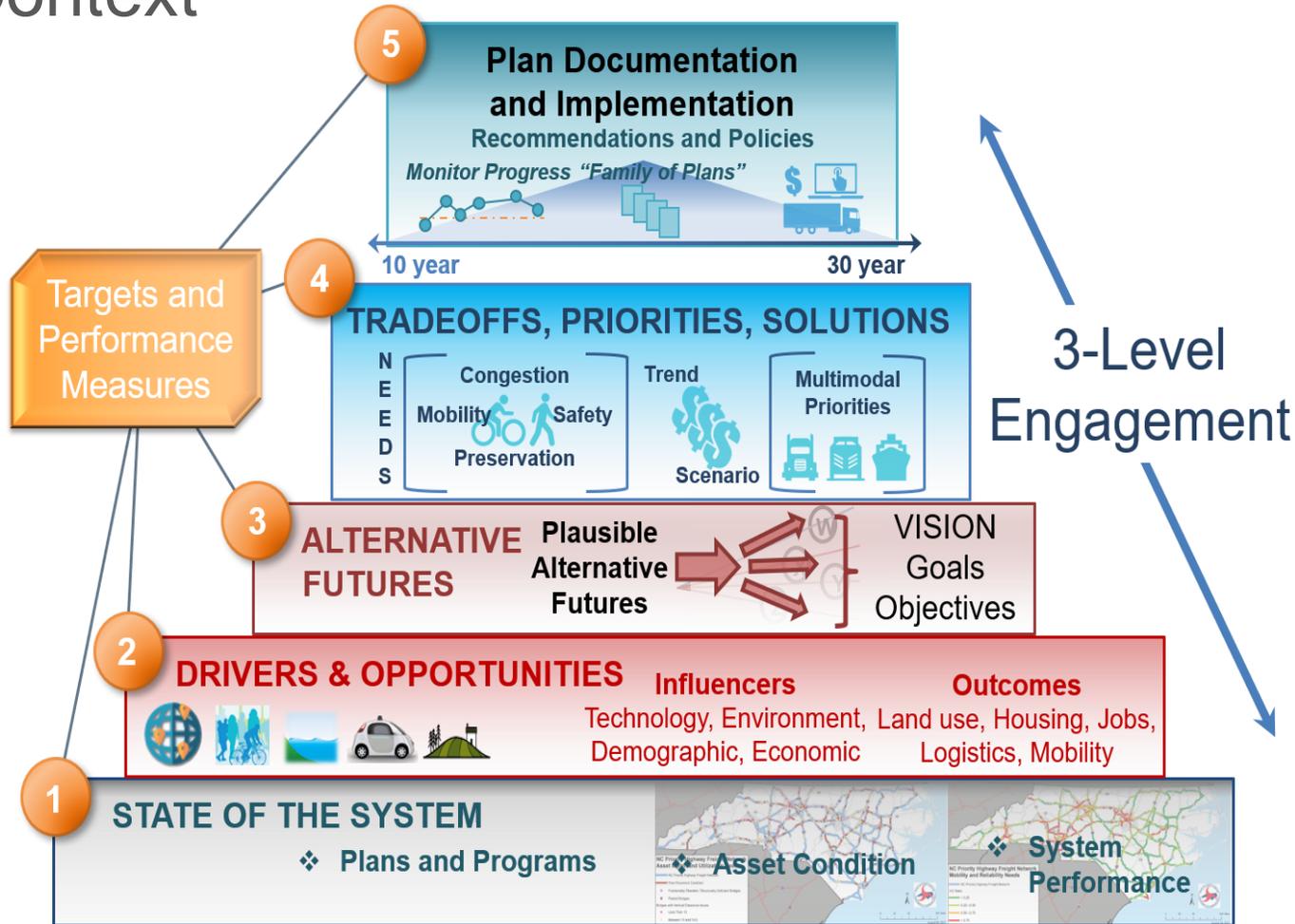
CONNECTING YOUR COMMUNITY,
YOUR VOICE AND YOUR FUTURE

Agenda Outline

2030 Multimodal Transportation Needs

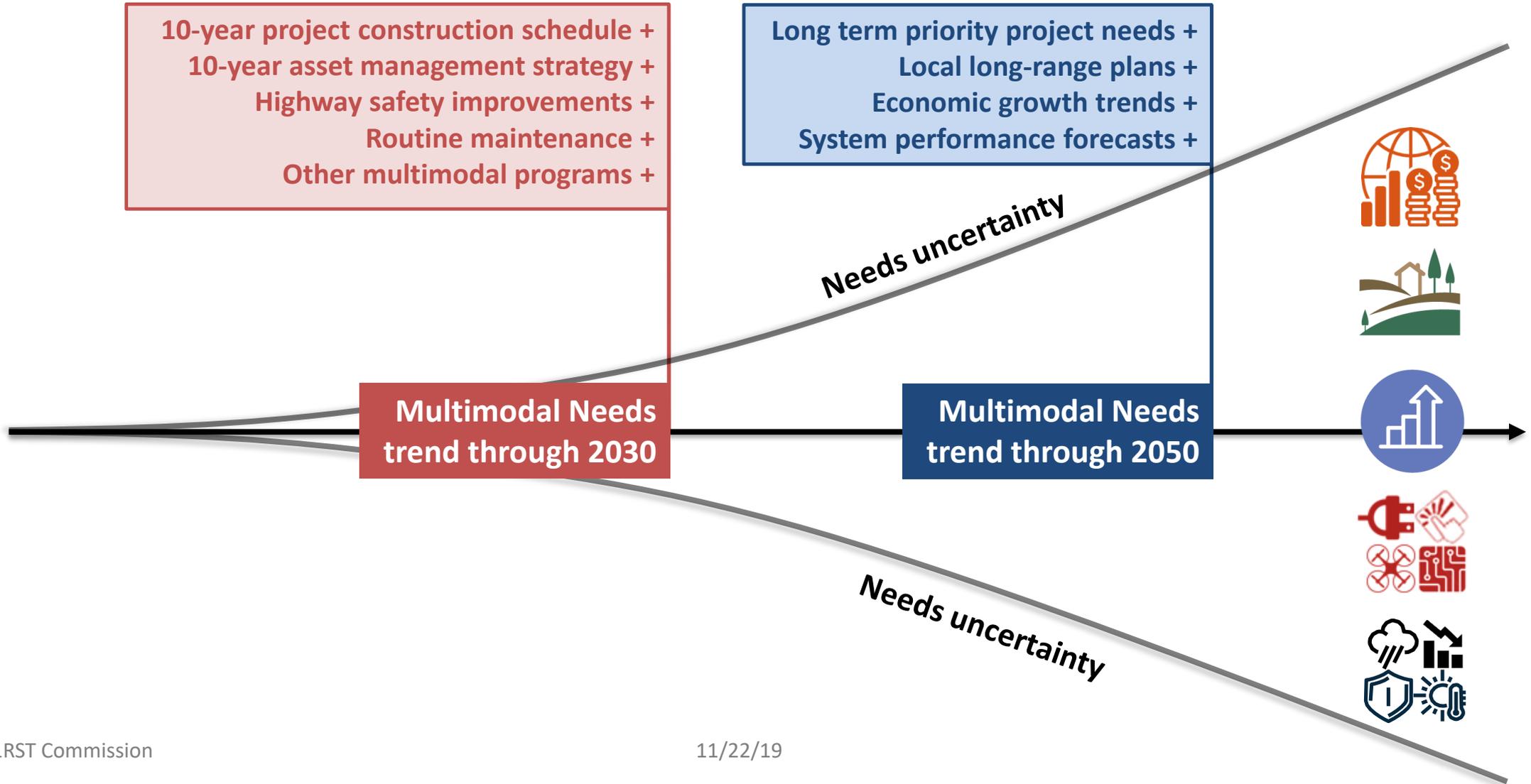
1. Context
2. Approach, Organization
3. Summary Insights – Mode, Tier, Region, Assets
4. Future Demand
5. Transition to 2050 Needs
6. Next Steps

NC 2050 Moves Plan Development Context

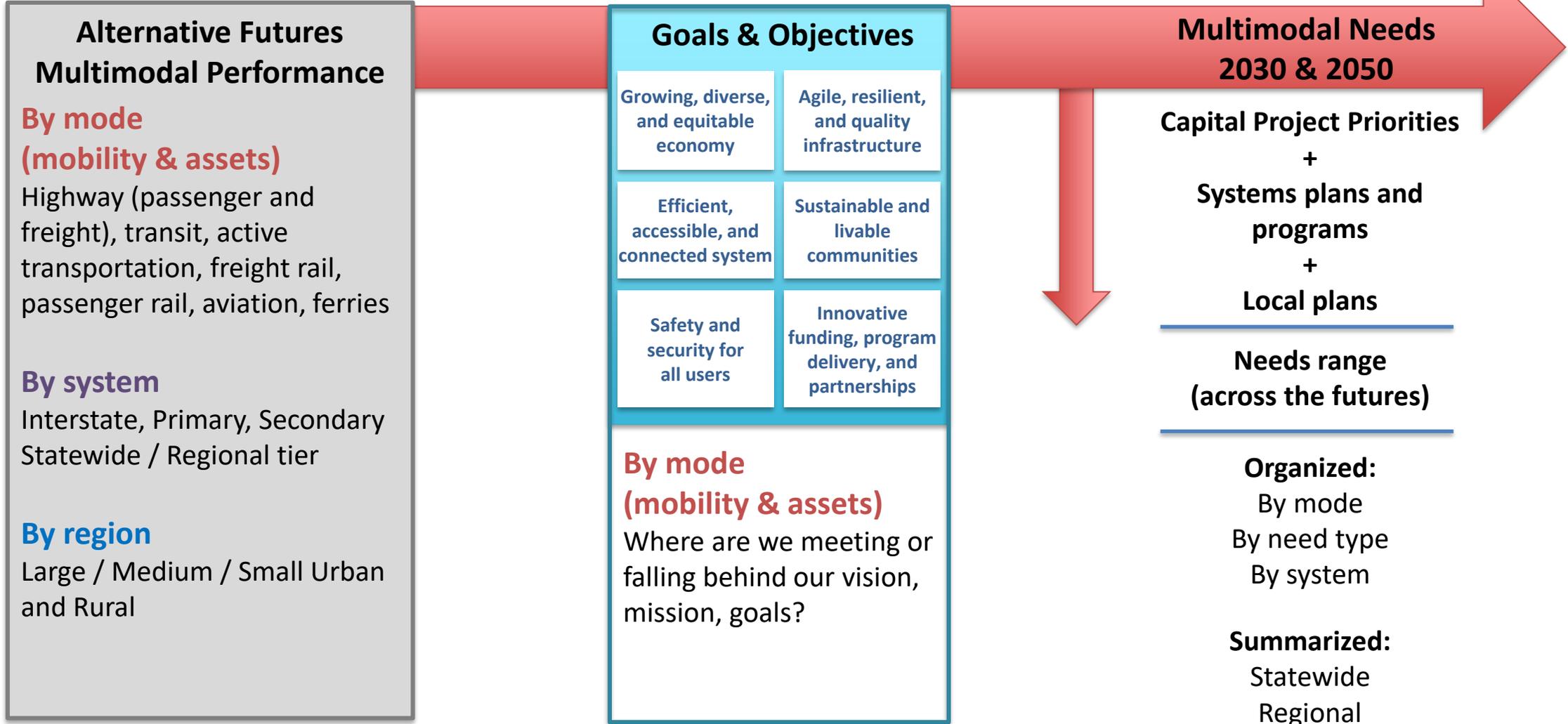


- Federal requirement
- Inventory existing planning practice
- Identify short- and long-term trends, disruptors, challenges and opportunities
- Evaluate multimodal system-wide needs (2030, 2050)
- Forecast 2050 financial opportunity
- Develop and test robust strategies
- Engage stakeholders, partners, and public
- ***BUILD A BLUEPRINT TO ALIGN AGENCY VISION, GOALS, OBJECTIVES AND GUIDE LONG TERM INVESTMENT POLICY, SYSTEM PERFORMANCE***

Multimodal Needs – Overall Approach

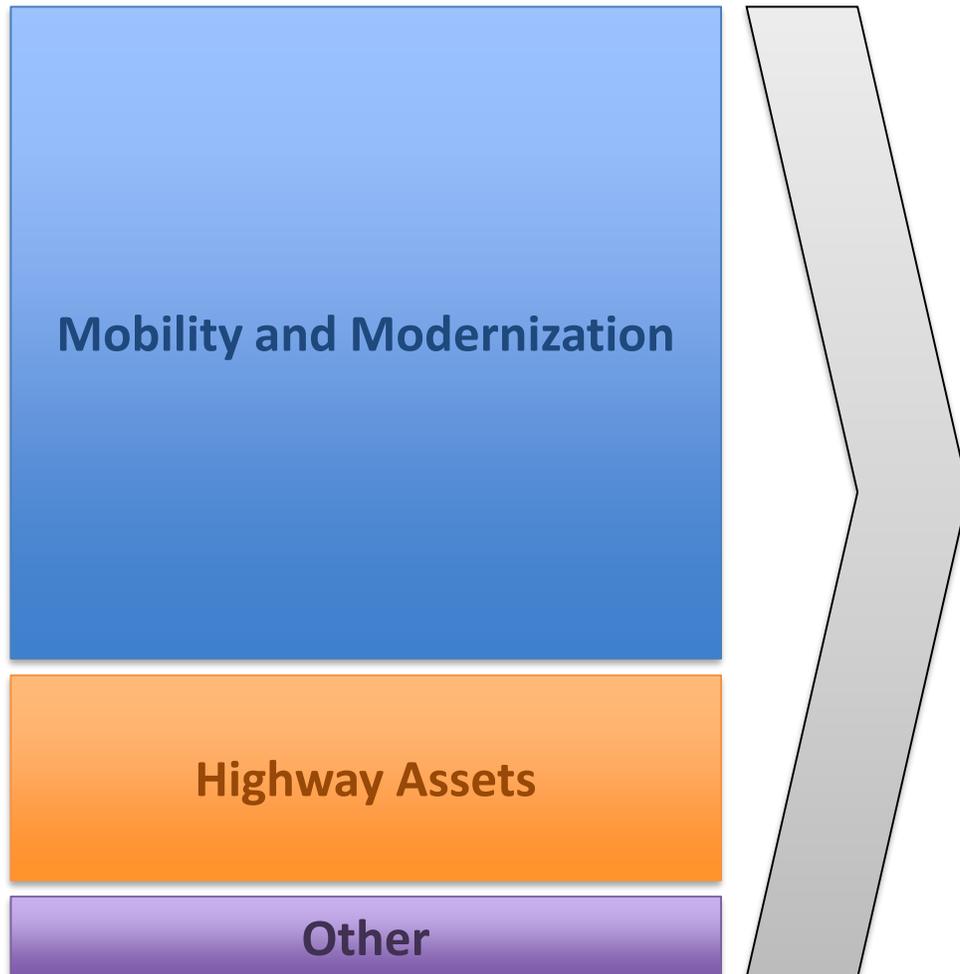


Multimodal Needs – Outcomes



Multimodal Needs – 2030 Trend

Qualifications for Preliminary Estimates

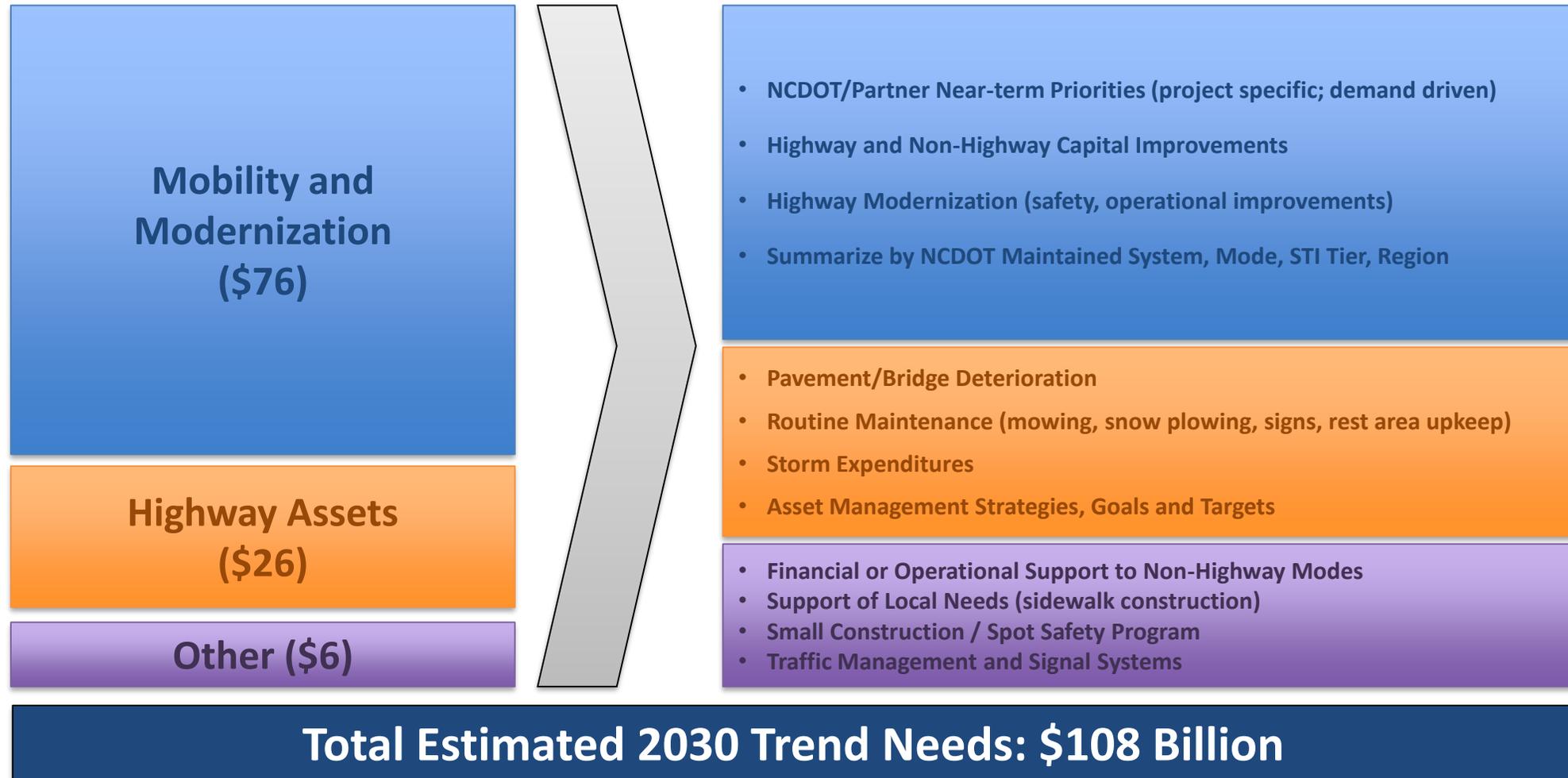


Guiding Parameters:

- Order of magnitude, planning level assessment
- Variety of databases, sources, analytical practice, and subject matter input
- Capital and operating costs within a range (2017-2019 dollars)
- Costs to NCDOT vs. total implementation
- Asset estimates to achieve NCDOT infrastructure targets
- Conservative inflation rate
- Exclude non-infrastructure support programs
- Exclude needs beyond NCDOT database for privately owned rail and commercial service airports
- Exclude other, yet to be determined infrastructure needs not found in source documents

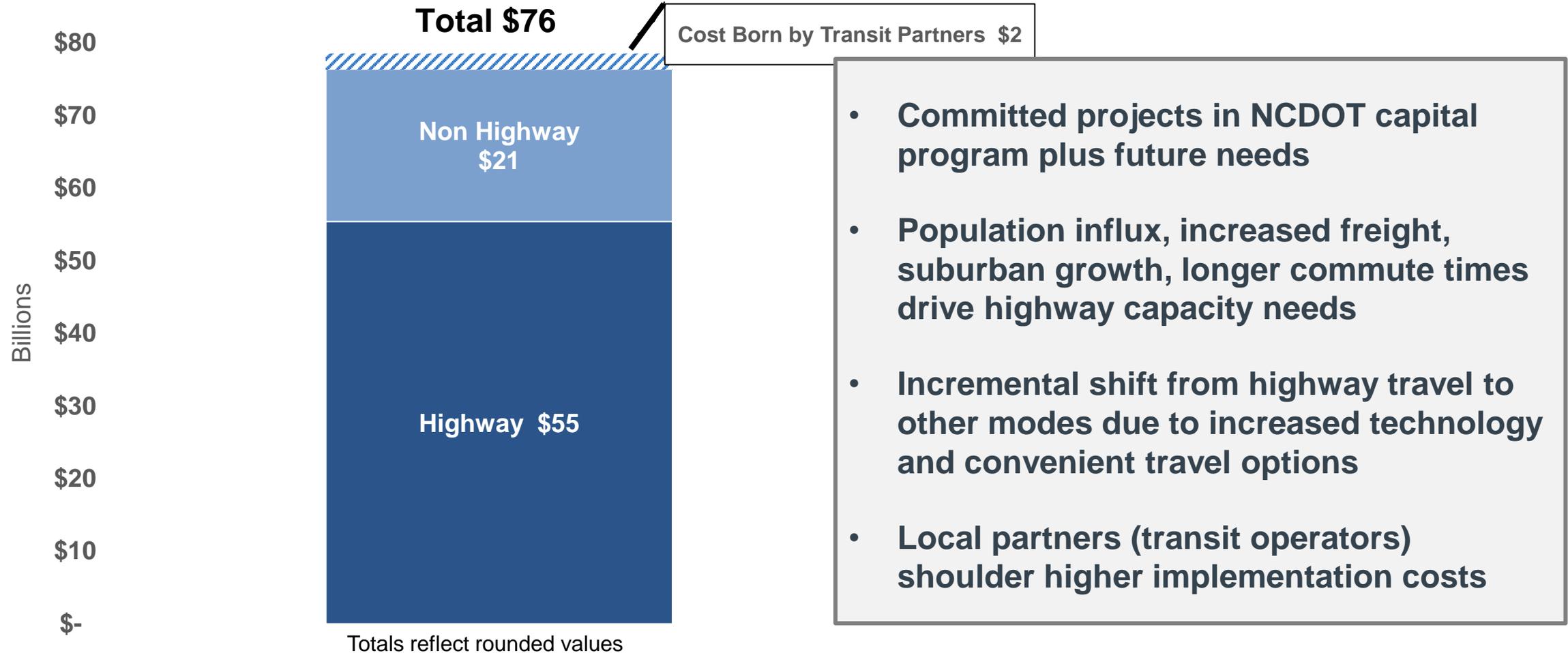
Multimodal Needs – 2030 Trend

Sources/Analysis - Preliminary Estimates (billions)



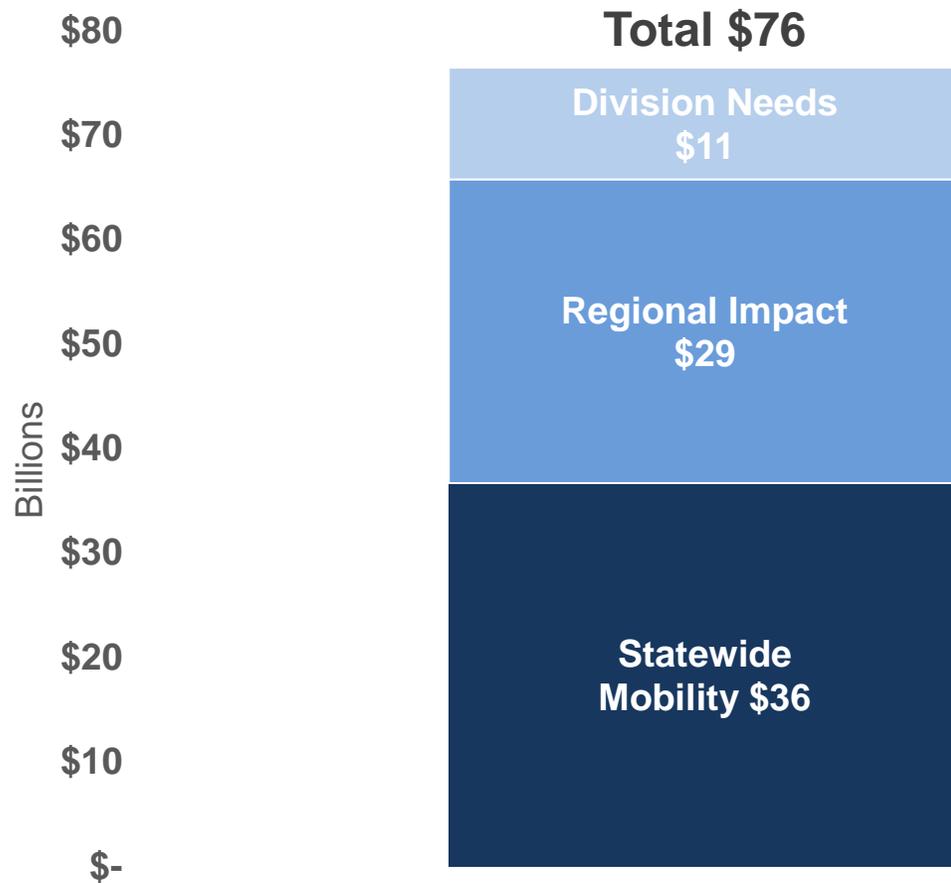
Multimodal Needs - 2030 Trend

Mobility and Modernization – Estimates by Mode (billions)



Multimodal Needs - 2030 Trend

Mobility and Modernization – Estimates by STI Tier (billions)

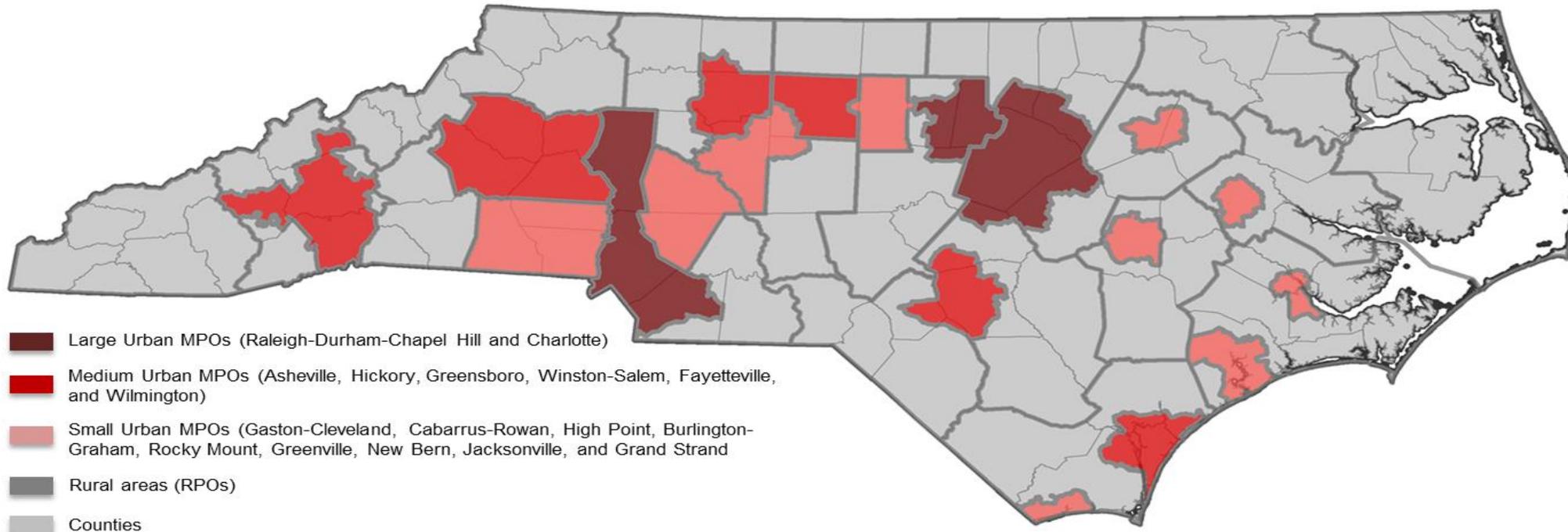


Totals reflect rounded values

- **Significant demand on highest tier facilities and systems**
- **Capacity improvements and modernization of suburban routes and growth of intra-regional transit needs**
- **Greater competition between highway and non-highway needs to meet multimodal solutions at regional and division levels**

Multimodal Needs - 2030 Trend

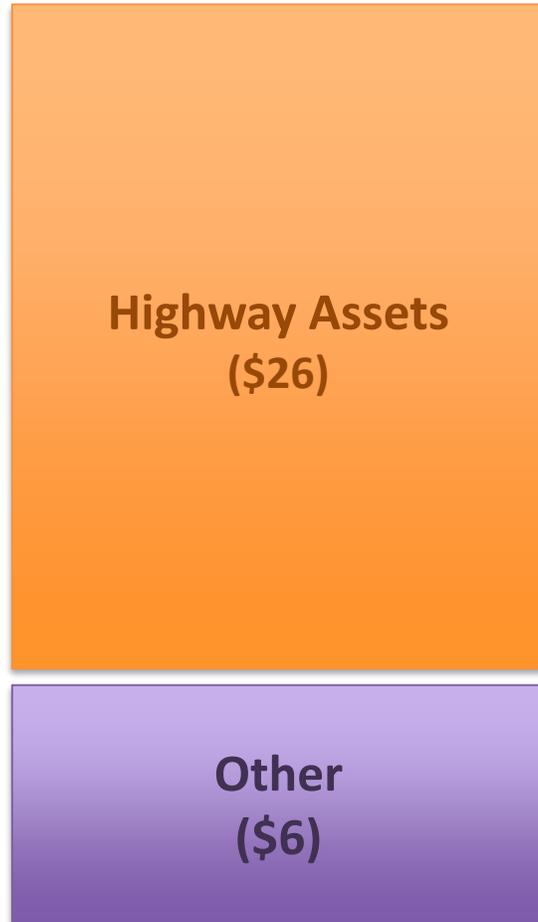
Mobility and Modernization – Estimates by Region (billions)



Note: Totals reflect rounded values

Multimodal Needs - 2030 Trend

Estimates by Asset System and Other (billions)

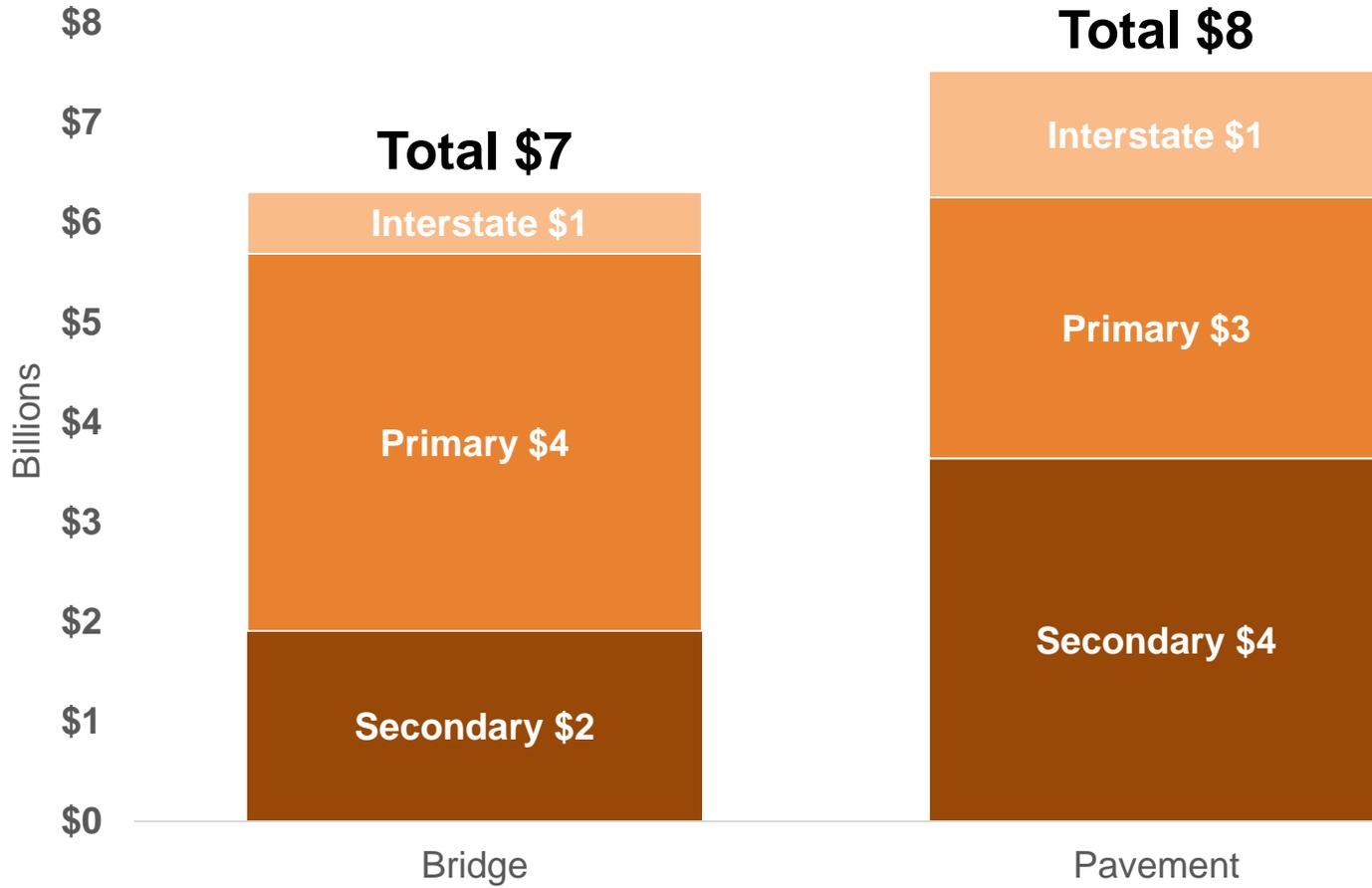


2030 Highway Assets - Total Need	
Bridge	\$7
Interstate	\$1
Primary	\$4
Secondary	\$2
Pavement	\$8
Interstate	\$1
Primary	\$3
Secondary	\$4
Routine Maintenance	\$11
3-Yr Avg Non-RMIP Expenditures	\$4
RMIP Production to Meet Goals – Annual Needs	\$5
Annual Storm Expenditures – 5-Yr Avg	\$2
Total:	\$26
2030 Other – Total Need	
State Non-Highway Support	\$5
Small Construction	\$0.4
ITS Infrastructure / Traffic Management	\$0.2
Total:	\$5.6 - \$6

Totals reflect rounded values

Multimodal Needs - 2030 Trend

Highway Pavement/Bridge – Estimates by System (billions)



Totals reflect rounded values

- Legislative and Department 2030 performance targets and goals
- Higher expected rate of asset deterioration
- 10-year Routine Maintenance Improvement Plan (RMIP) focus
- Technology driven improvements

Multimodal Needs

Considerations to move from 2030 to 2050

- **Exploratory**
 - Linked to Alternative Futures economic and performance outcomes
- **Uncertainty**
 - Ranges reflect the connection between differing future performance narratives and potential needs
- **Trend Diversity**
 - Acknowledge potential unknowns and risks
- **Research**
 - What did we learn from drivers and opportunities to inform needs and associated strategies



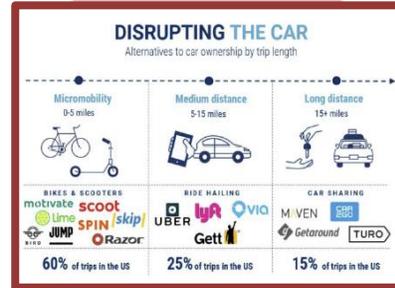
INNOVATIVE

A future where technology in transportation drives new development patterns and economic growth. This results in a low-carbon, shared, lower cost, and more accessible multimodal system.

Connected Hubs



Shared Mobility



Drones, Driverless and Electric Vehicles





GLOBALLY CONNECTED

A future where economic growth in manufacturing, technology, automation, and services positions NC as a leading market for a skilled workforce, connected to the world by international gateways and an efficient freight system.

**International
Partners**



**Diverse
Workforce**



**Industry
Automation**





RENEWED

A future where small towns and rural communities grow and are more connected to each other and urban centers by various forms of transportation.

Local Economies



Connections



Balanced Growth





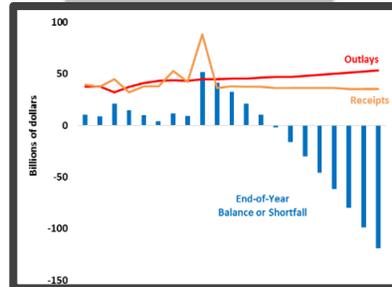
UNSTABLE

A future where funding instability, political and social events, environmental threats, and energy uncertainty stalls tourism and stagnates the economy. This creates a transportation system where travel costs are high and mobility is more unreliable.

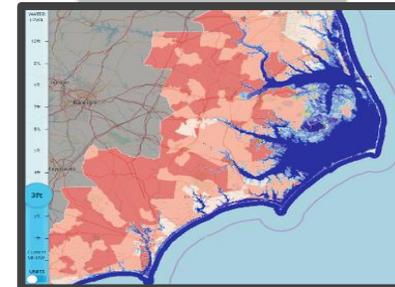
Severe Weather Events



Funding Challenges

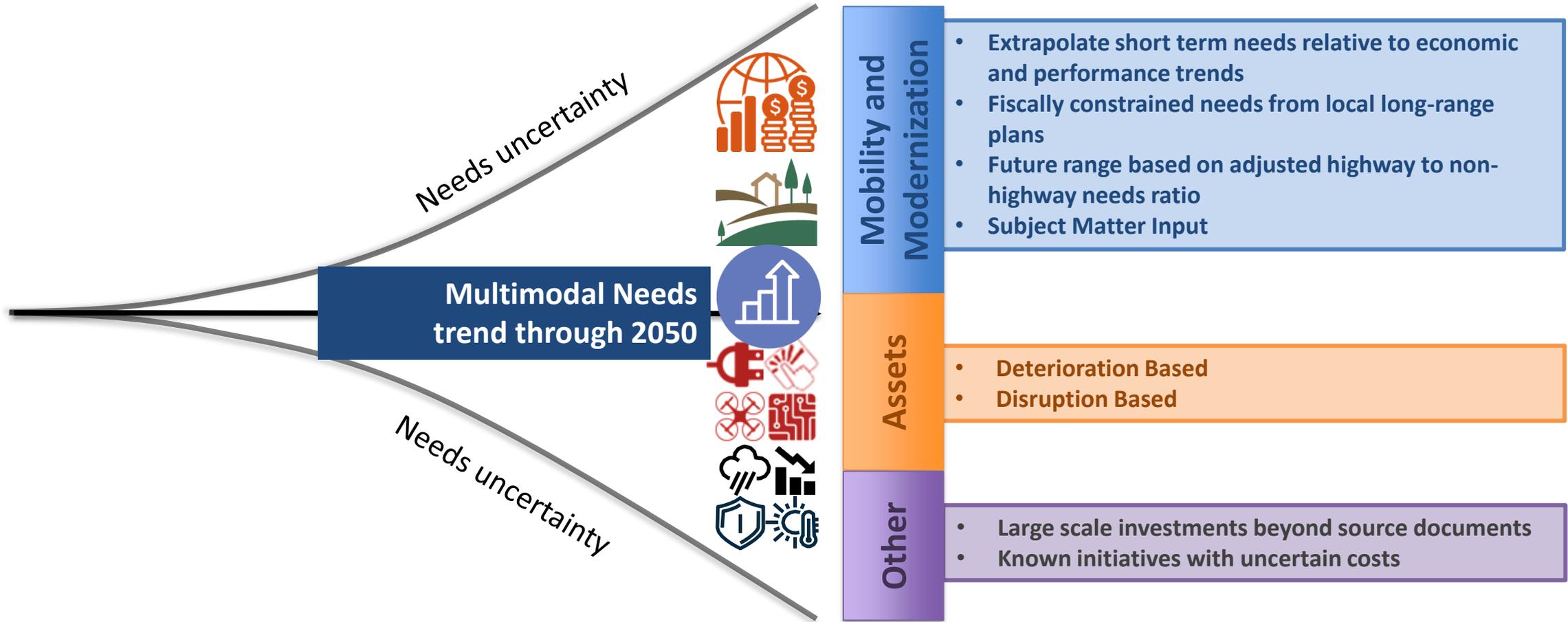


Threatened & At Risk Communities

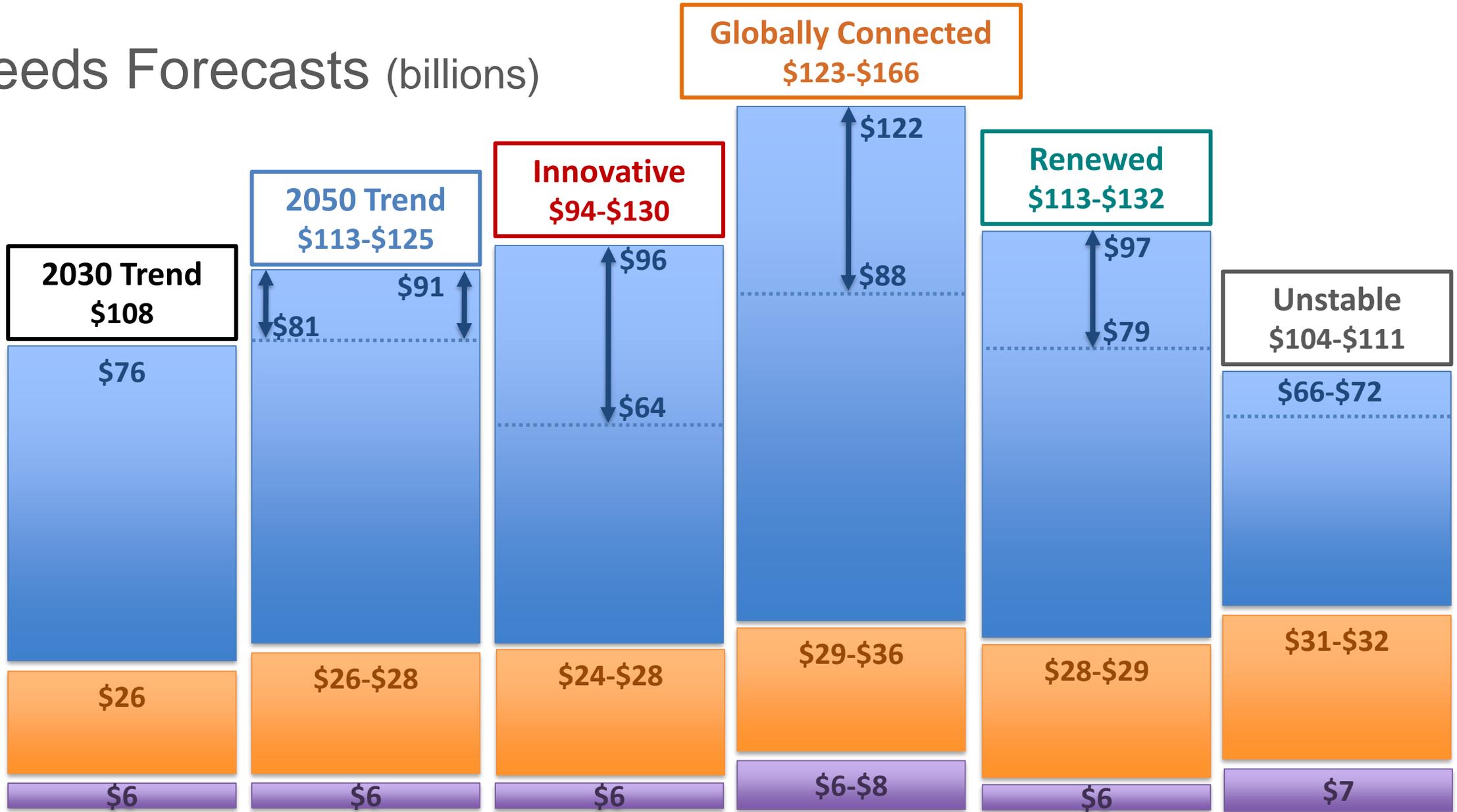


Transition to 2050 Multimodal Needs

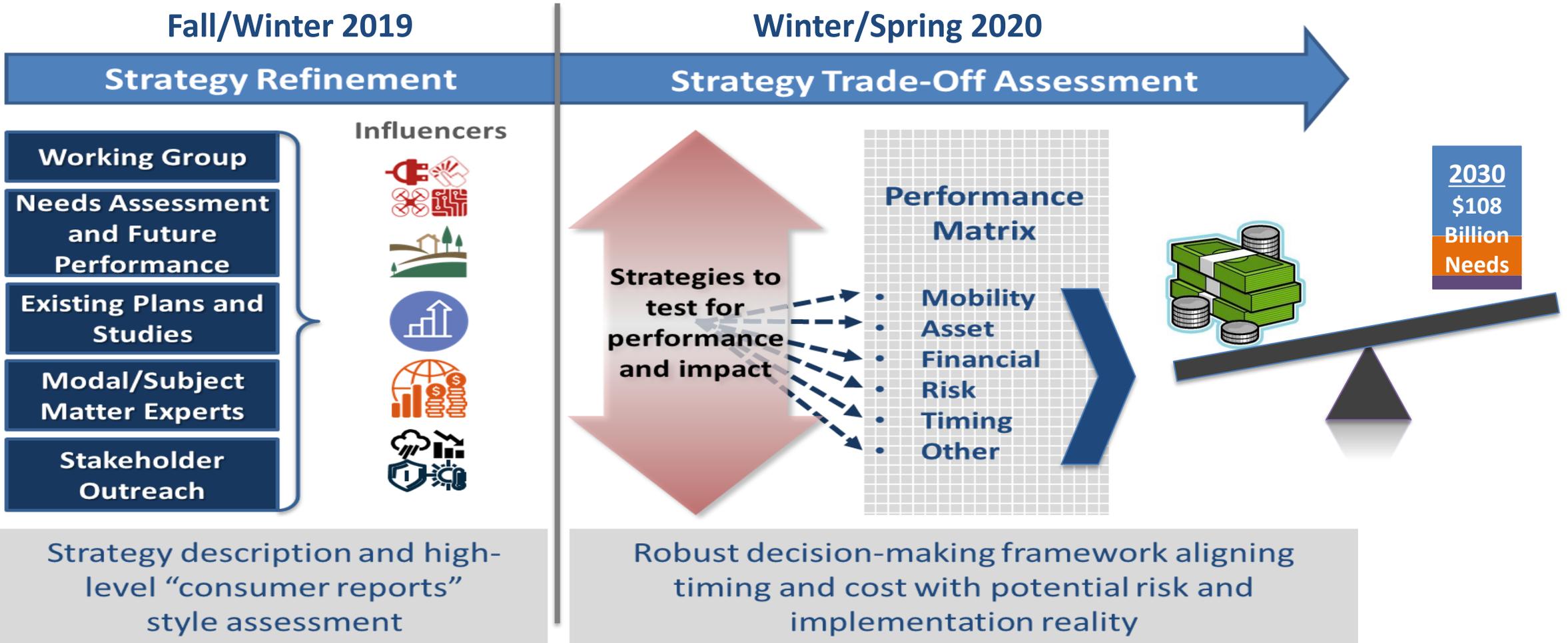
Trend vs Alternative Futures



Needs Forecasts (billions)



NC Moves 2050 Plan Development Next Steps



QUESTIONS